

FIG. 1

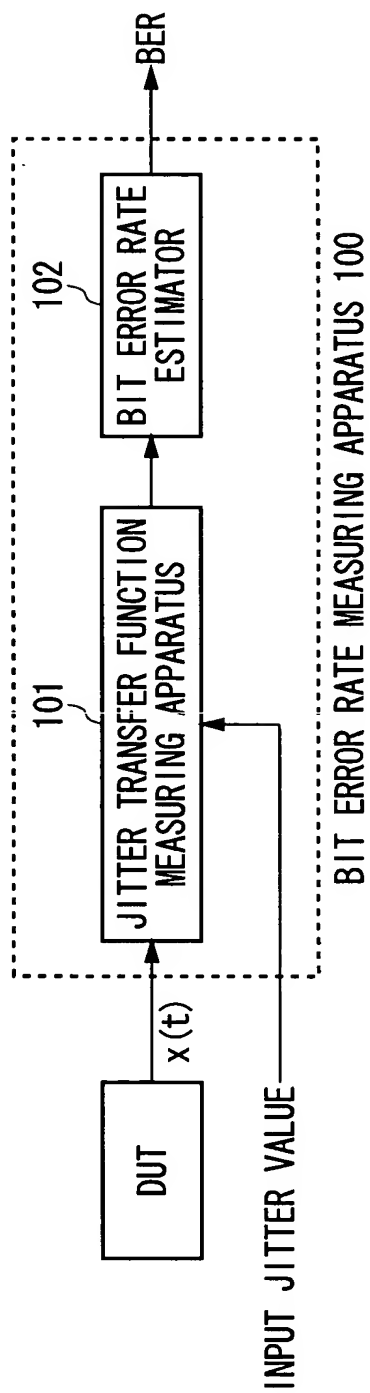


FIG. 2

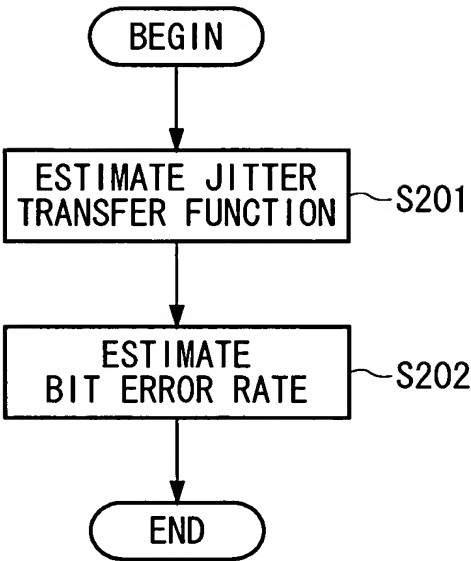


FIG. 3

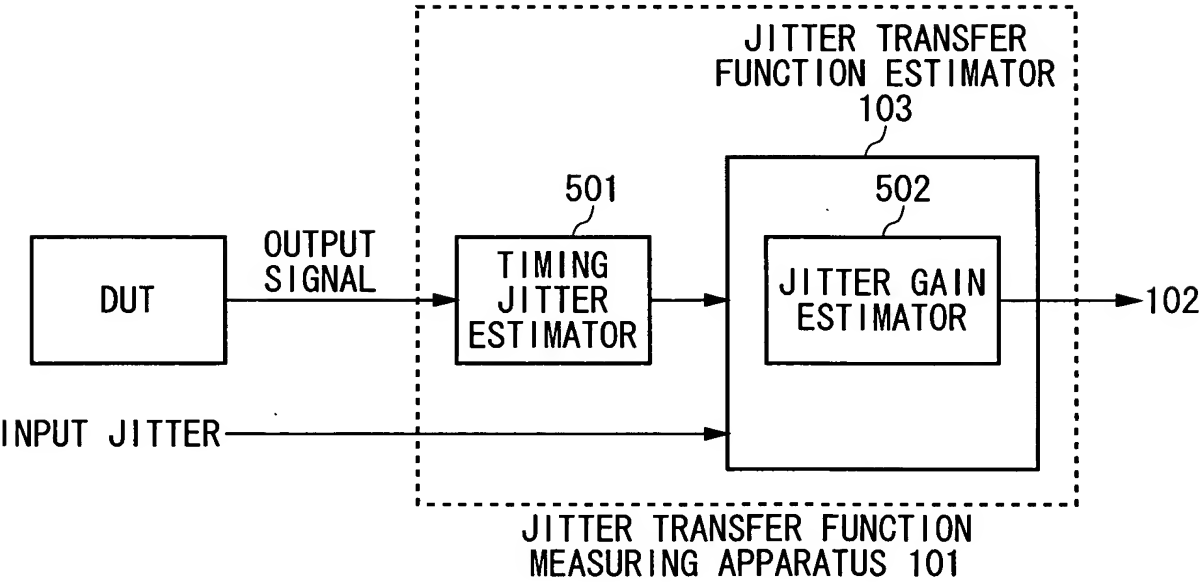


FIG. 4

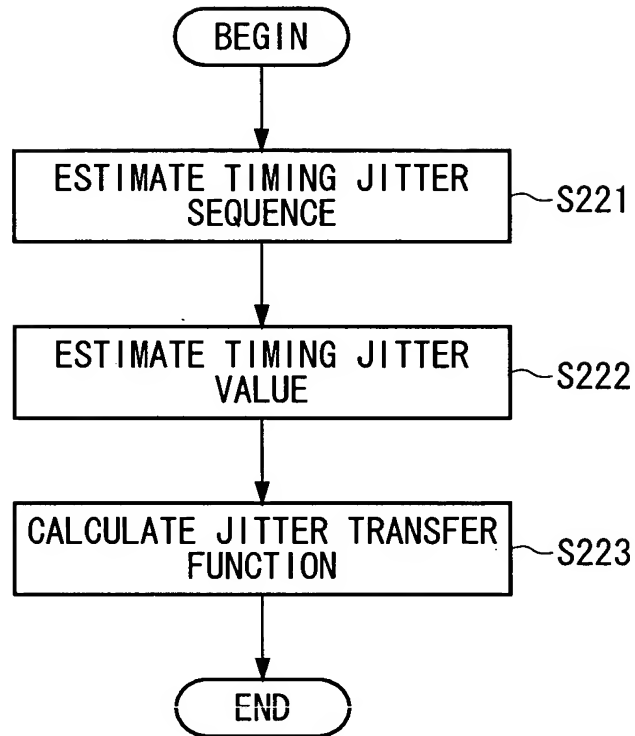


FIG. 5

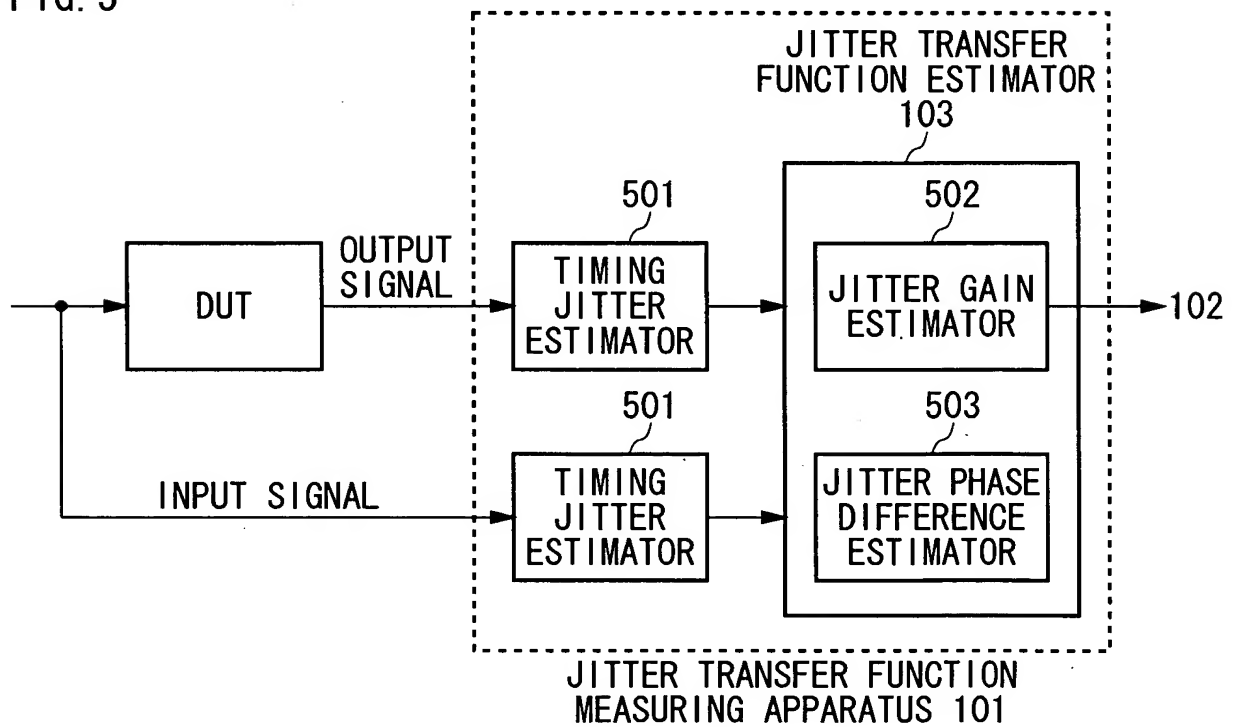


FIG. 6

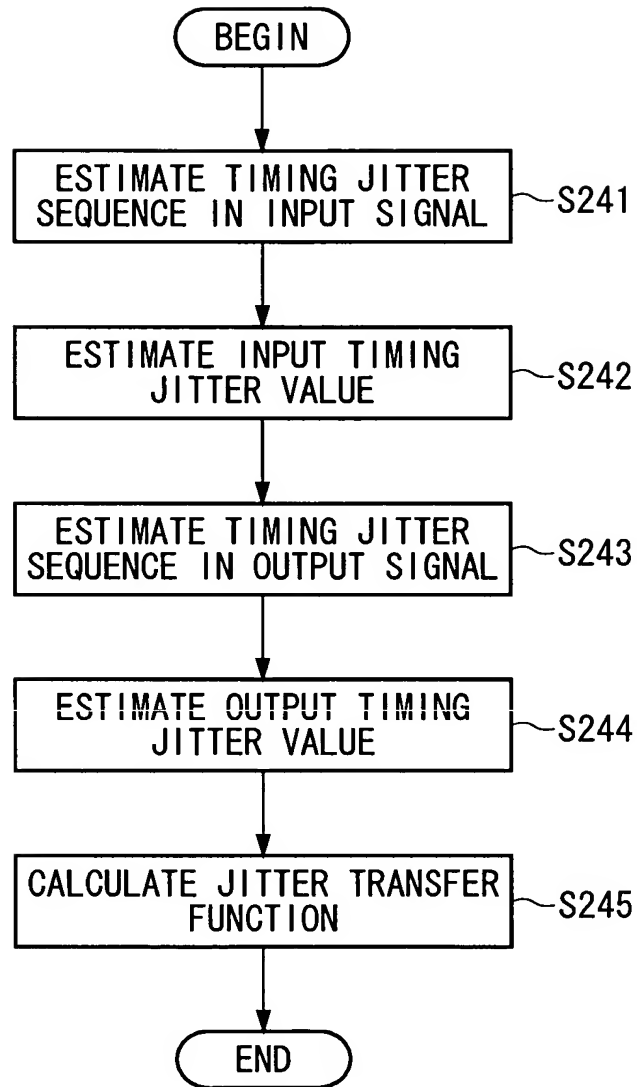


FIG. 7

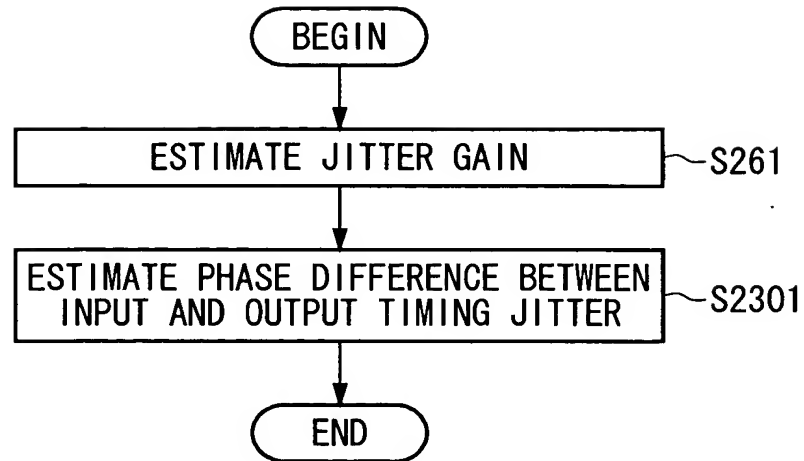


FIG. 8

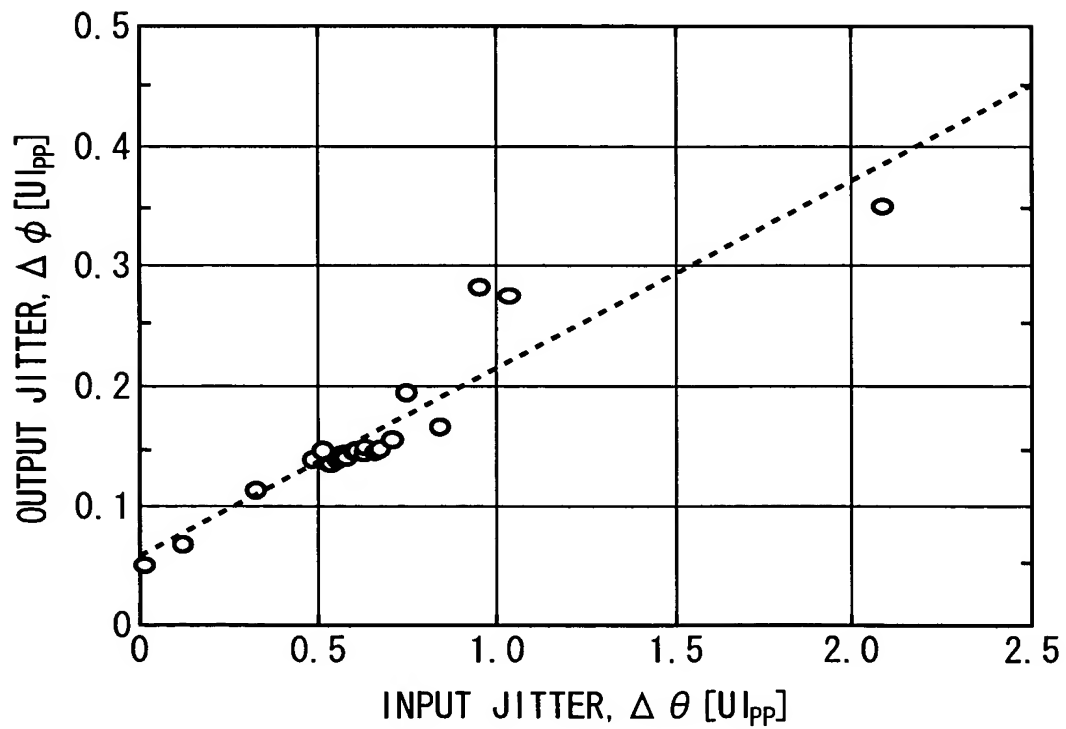


FIG. 9

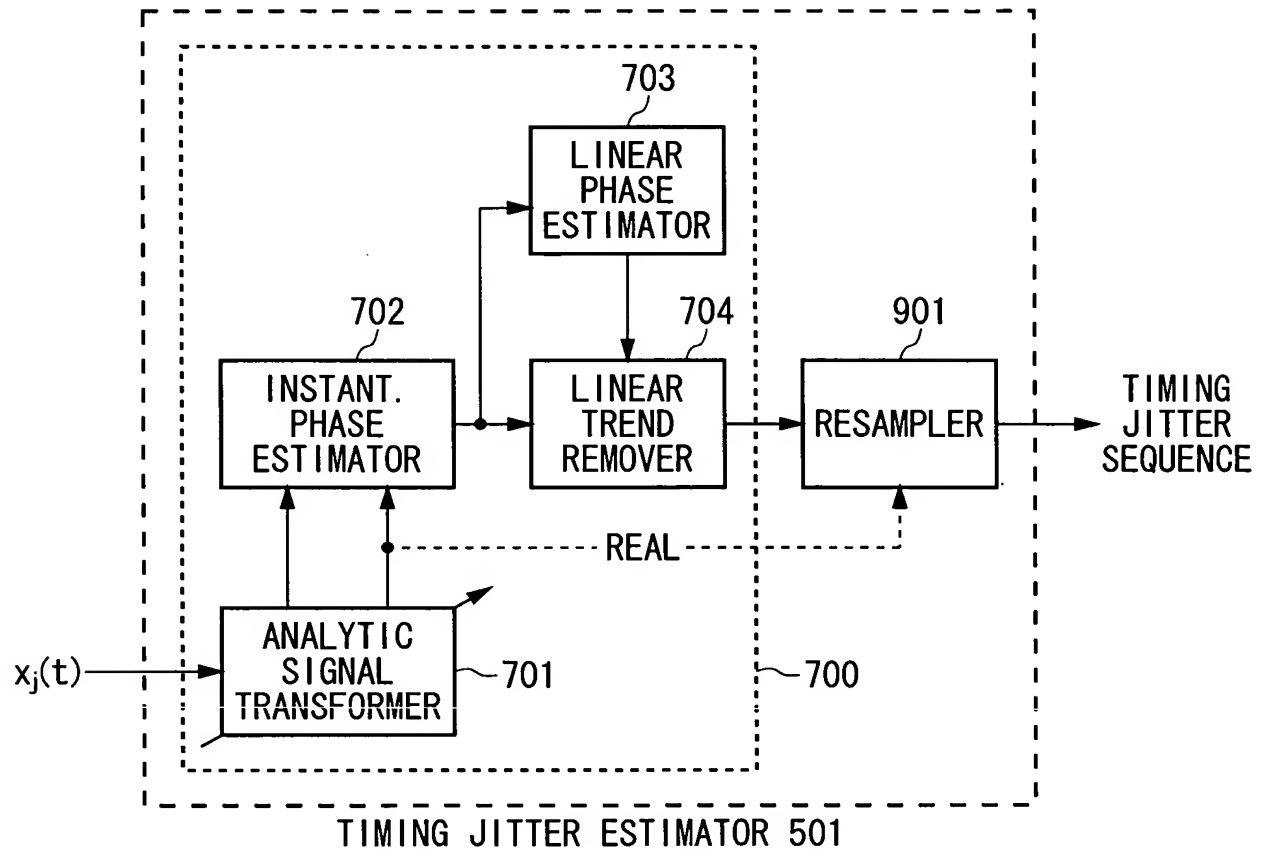


FIG. 10

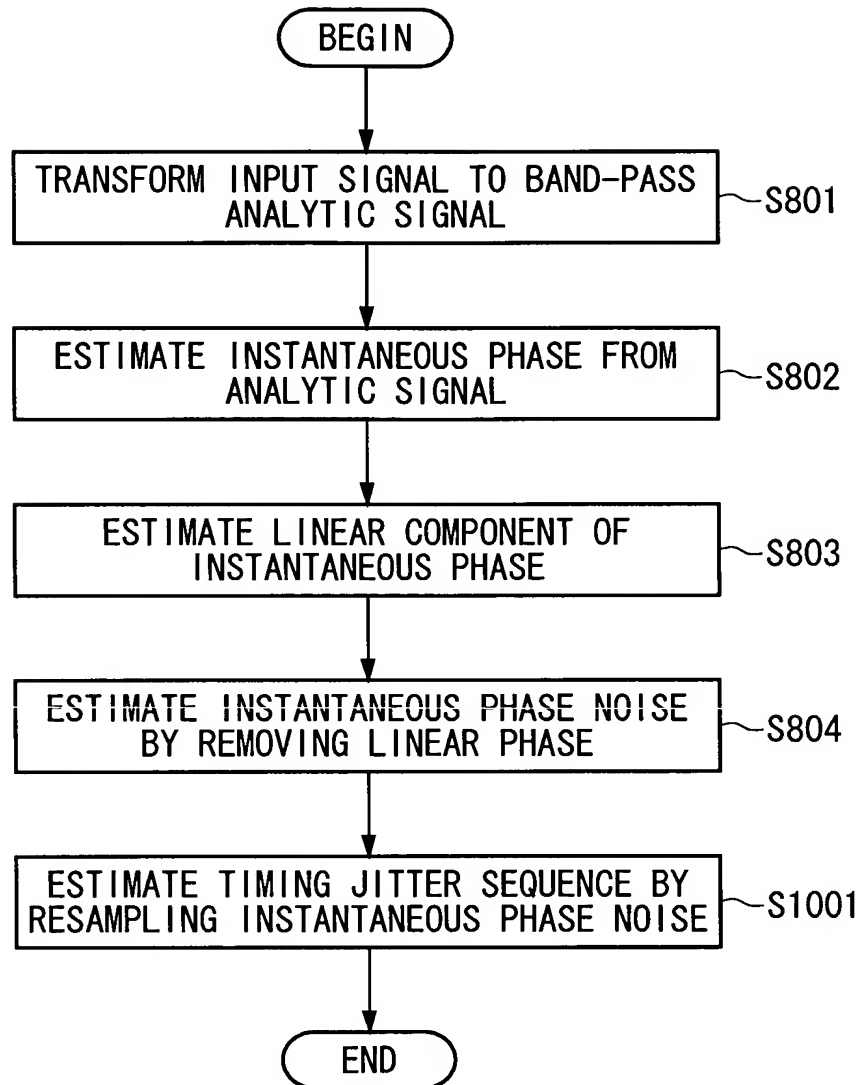


FIG. 11

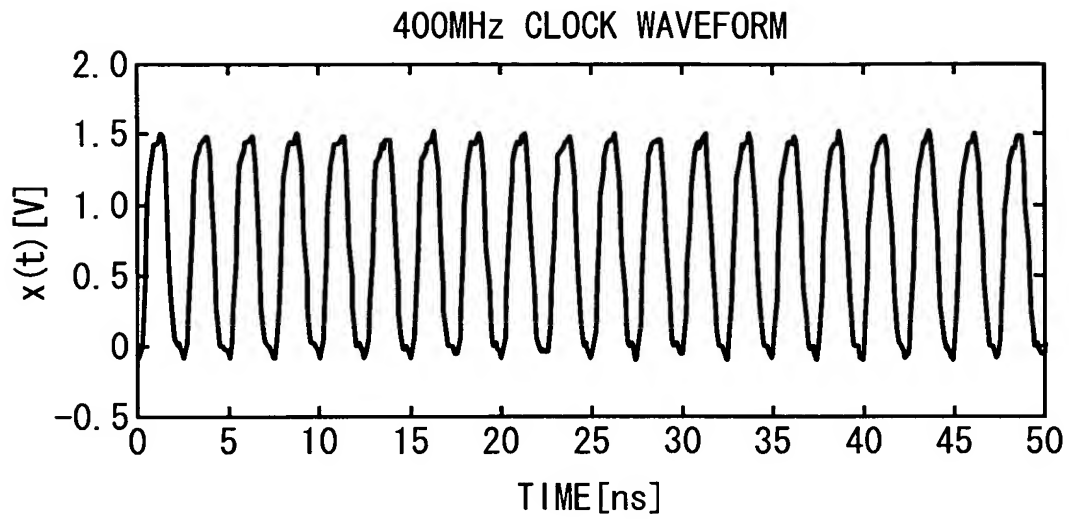


FIG. 12

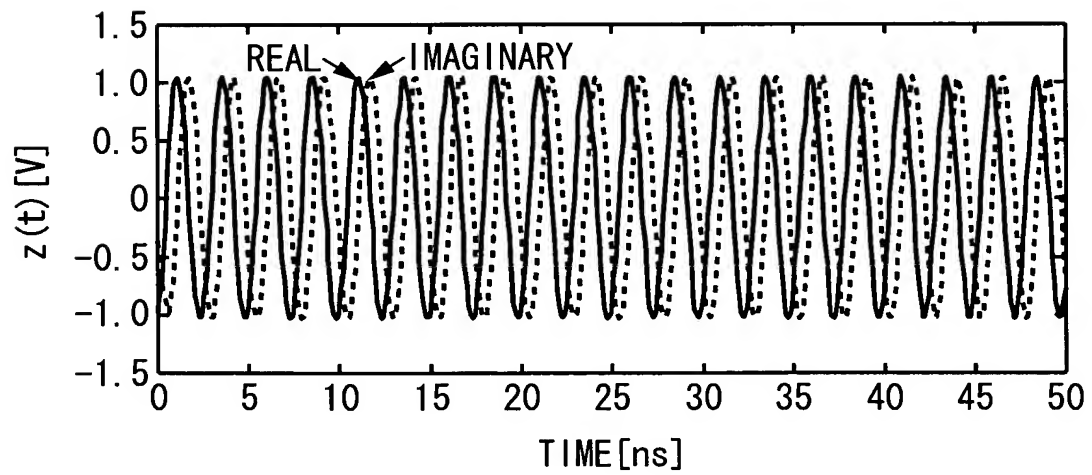




FIG. 13

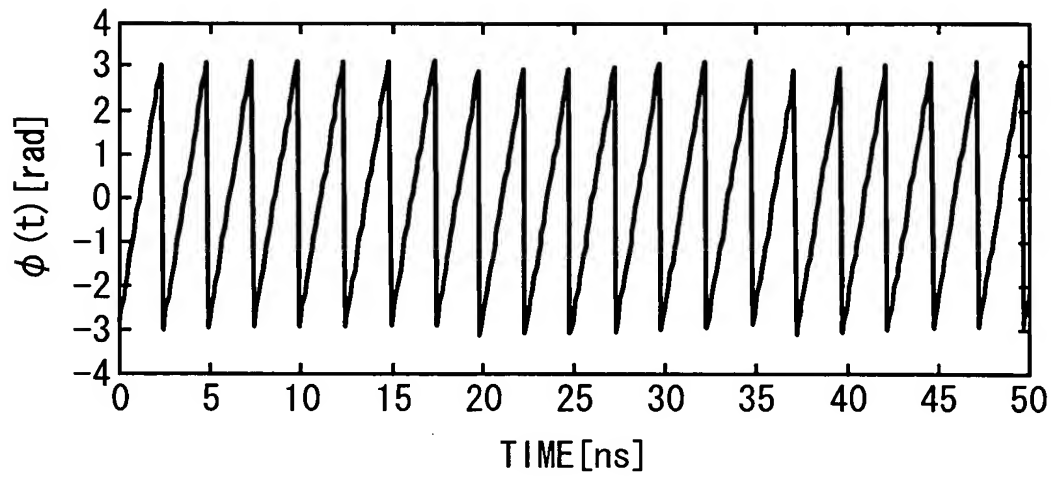


FIG. 14

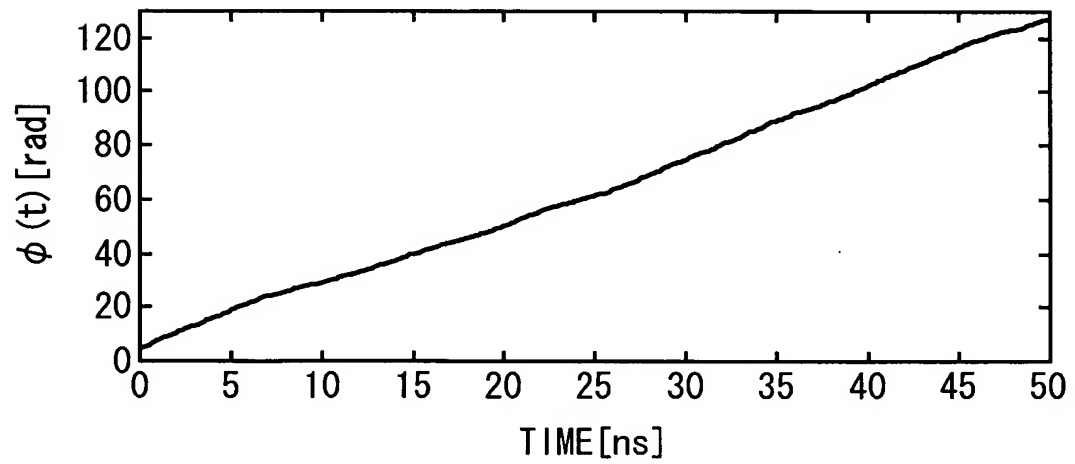


FIG. 15

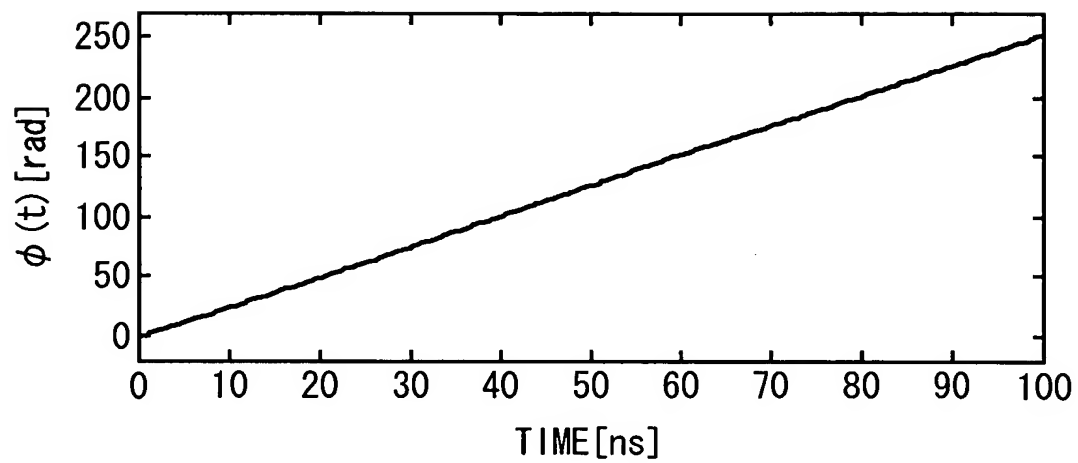


FIG. 16

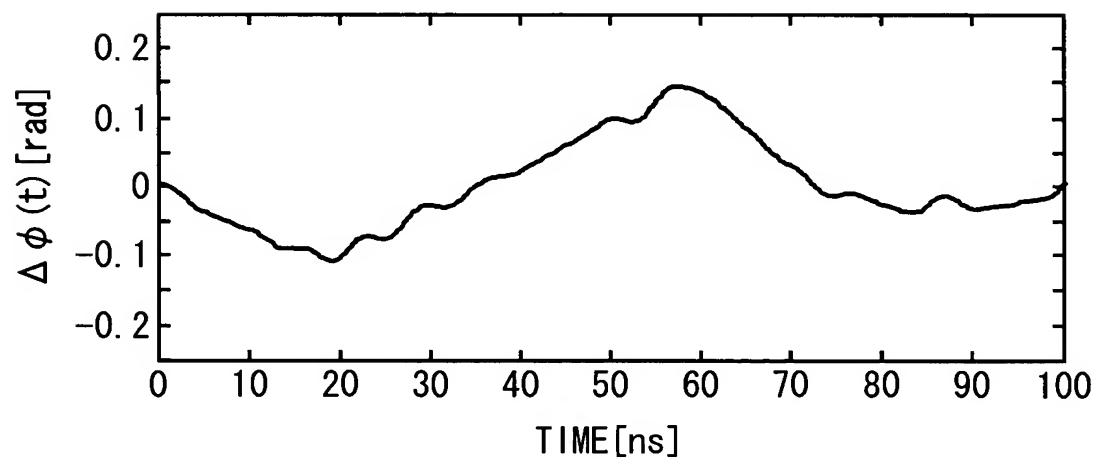


FIG. 17

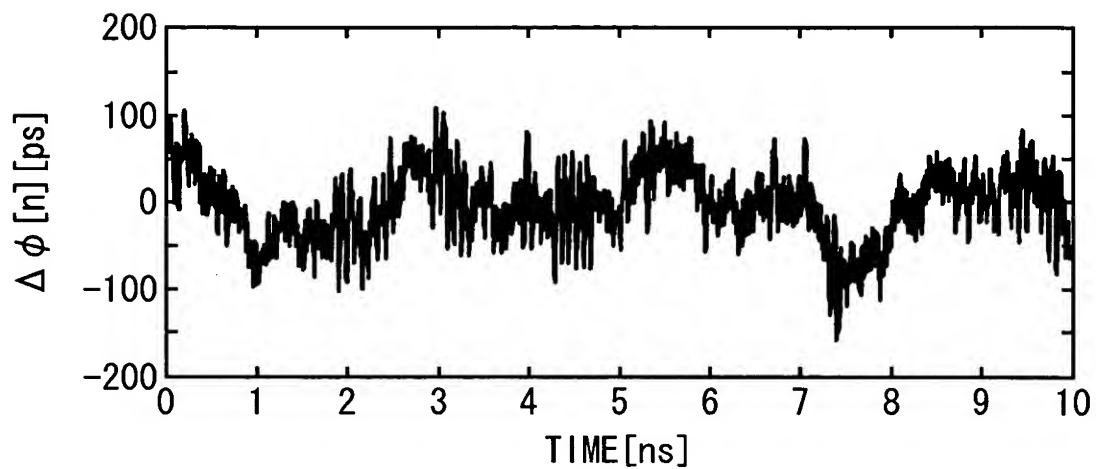


FIG. 18

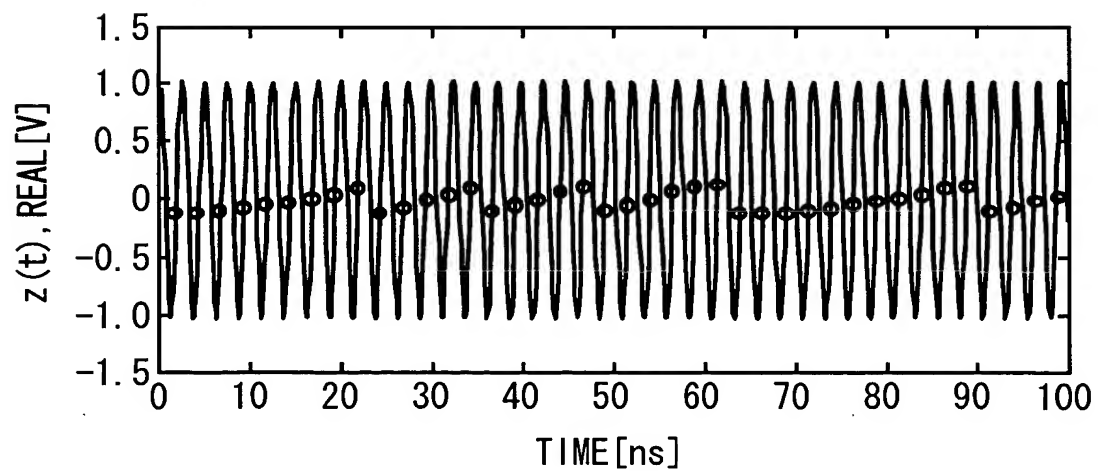


FIG. 19

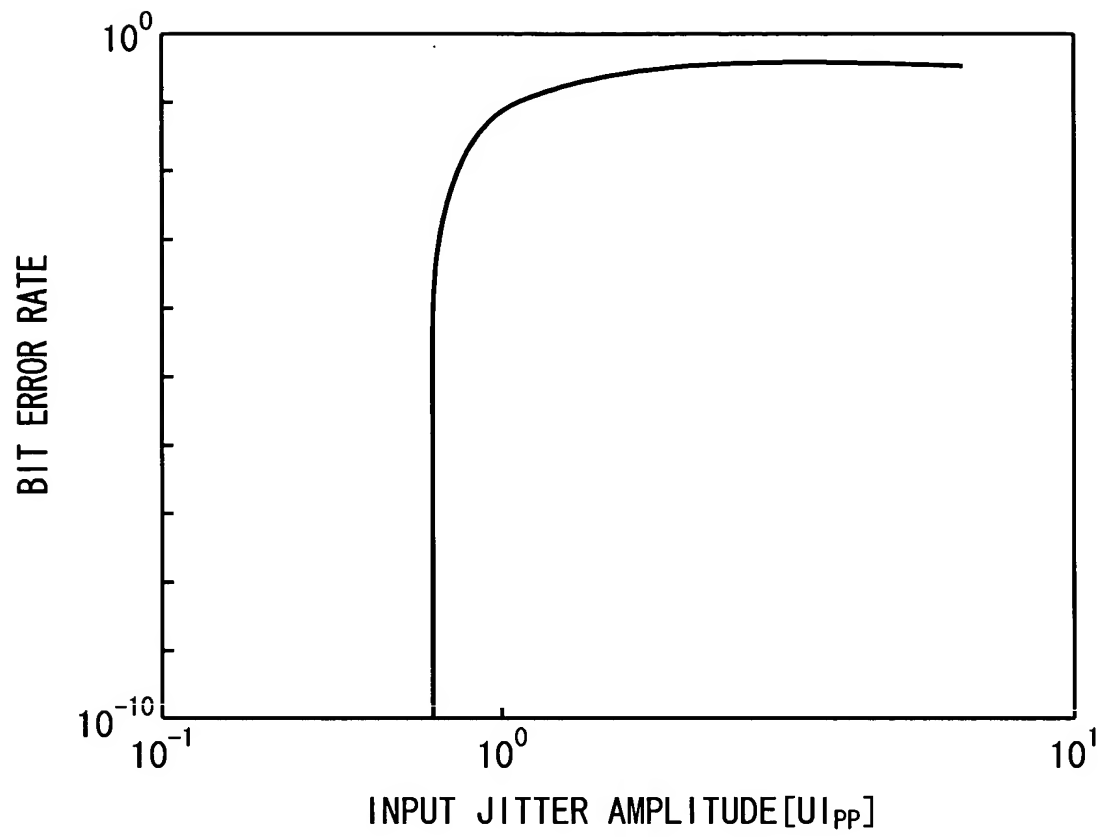


FIG. 20

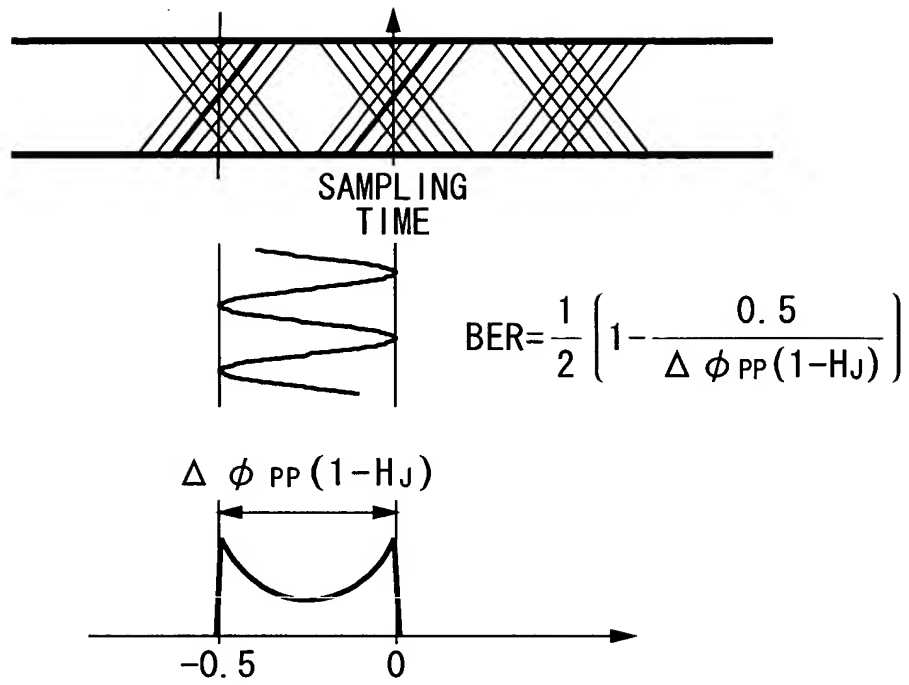


FIG. 21

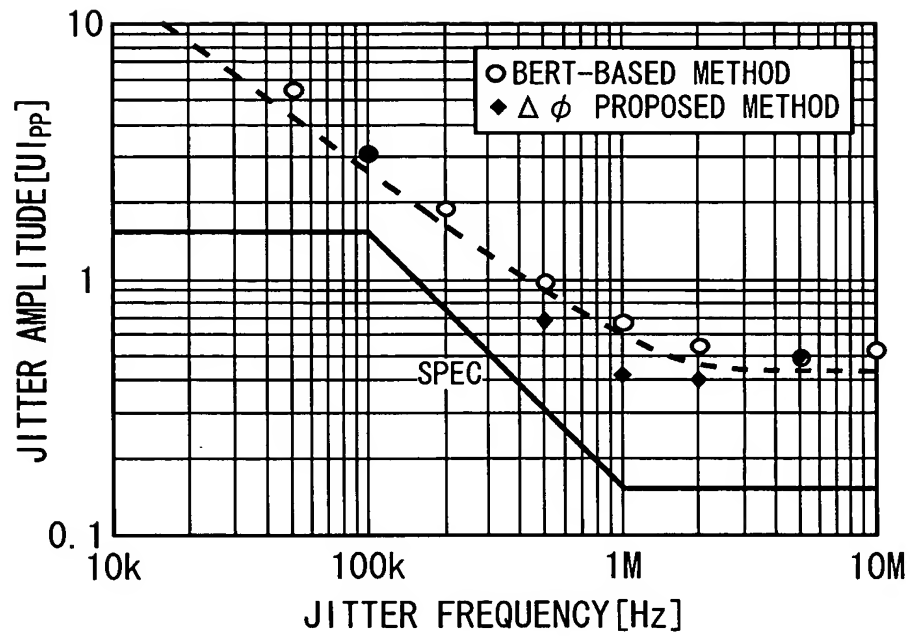
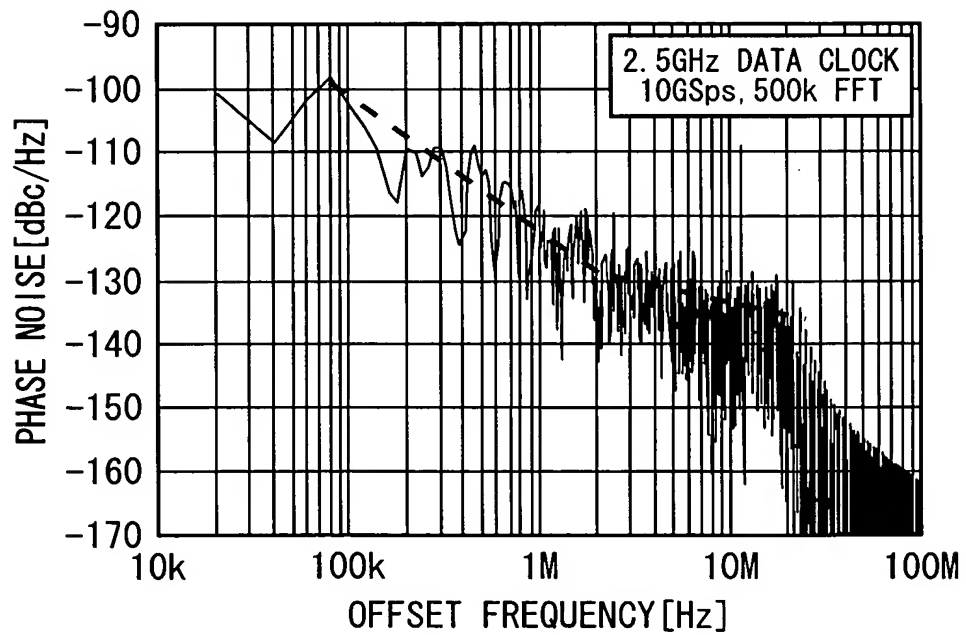


FIG. 22



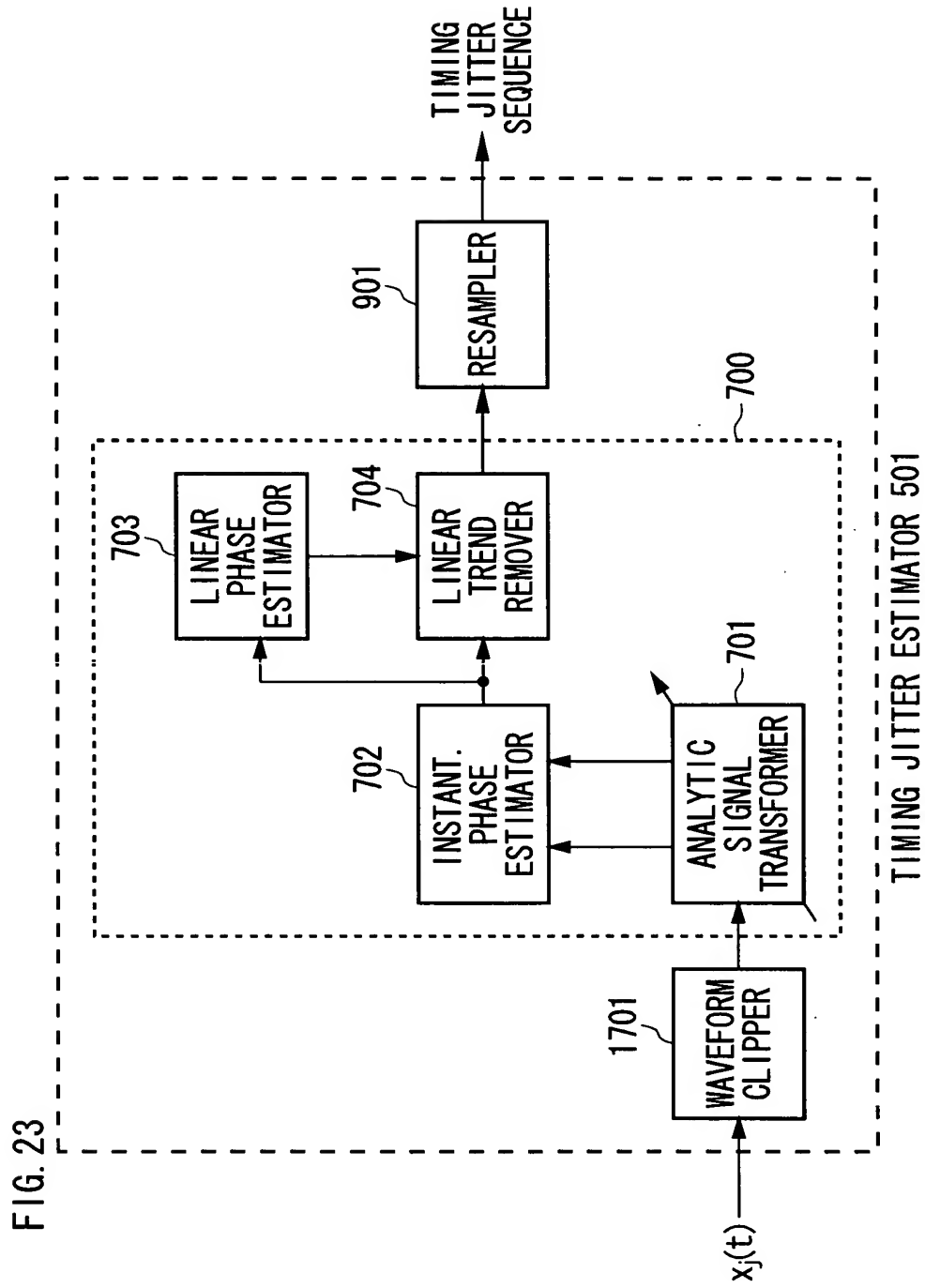


FIG. 24

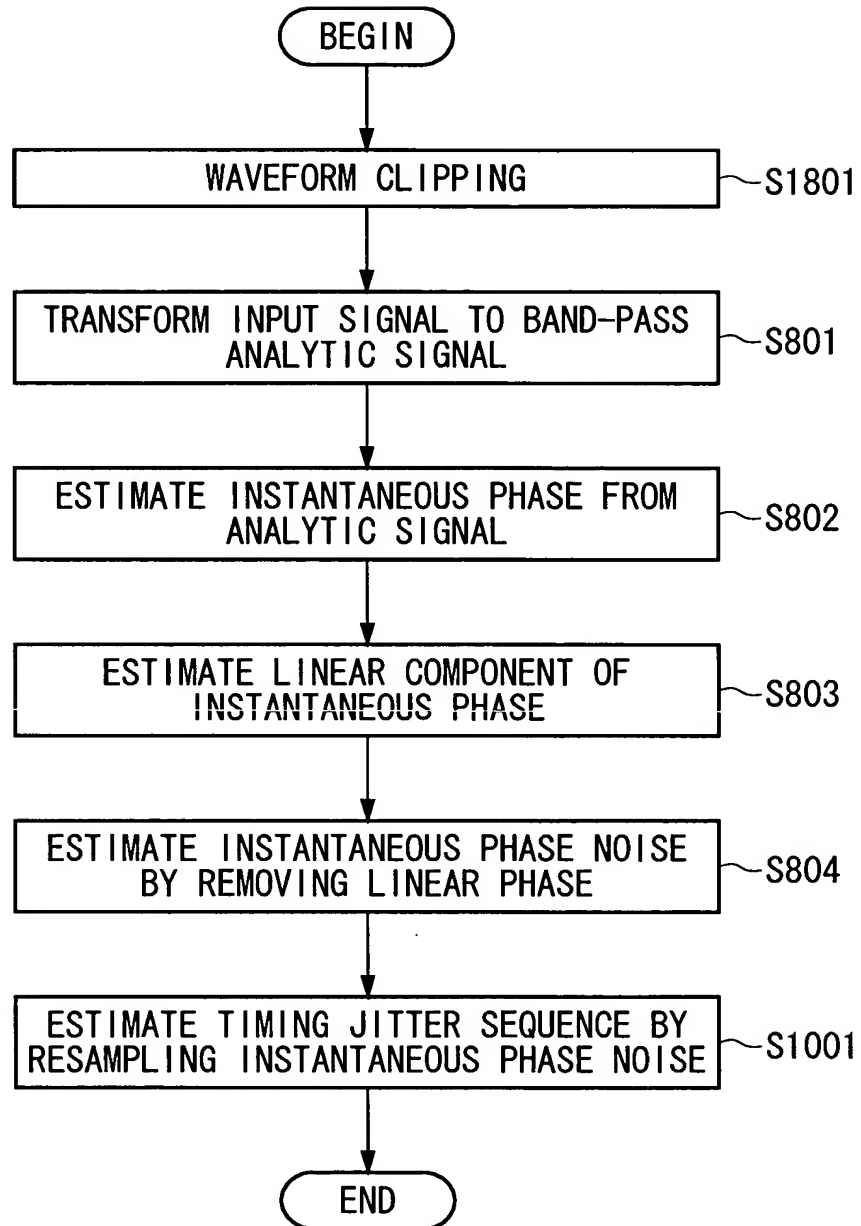




FIG. 25

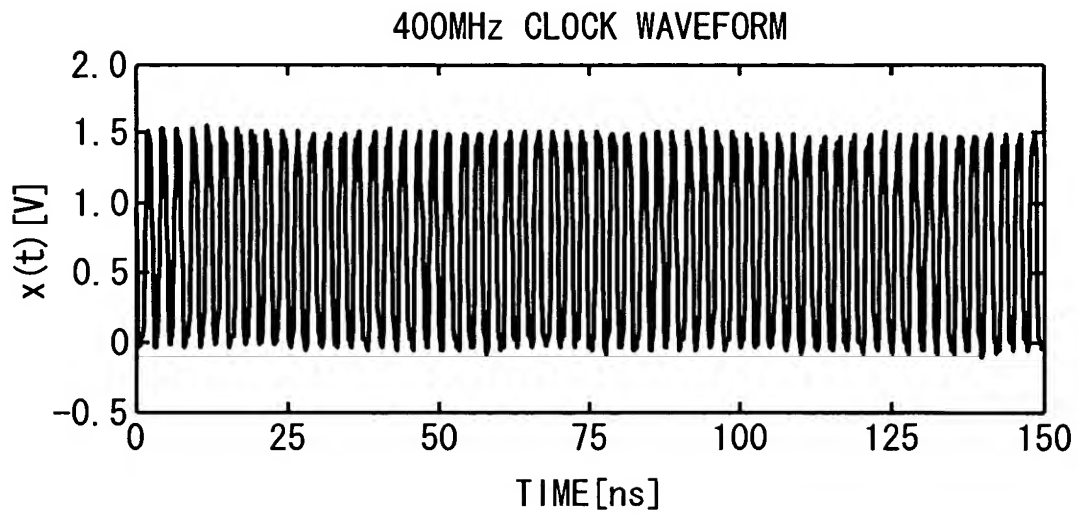
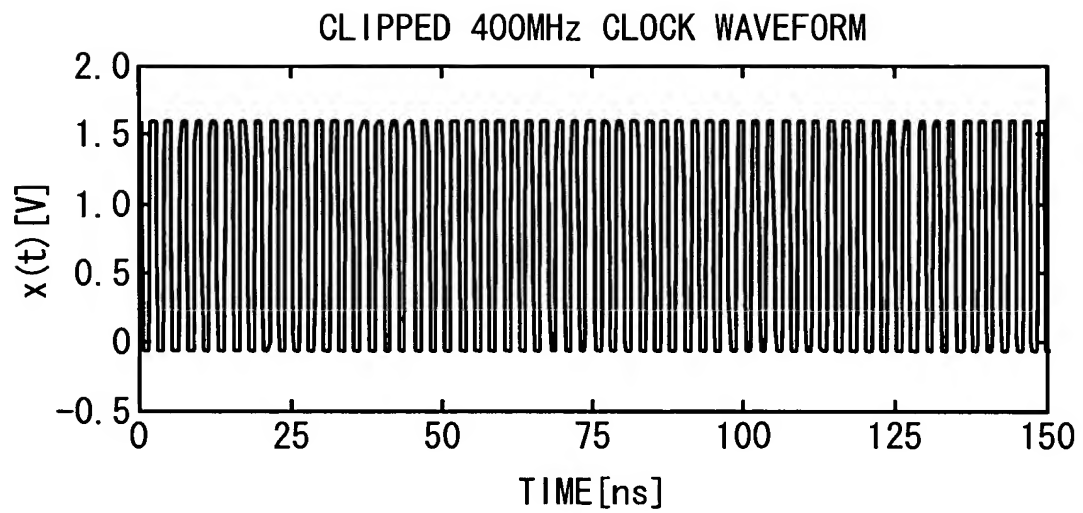


FIG. 26



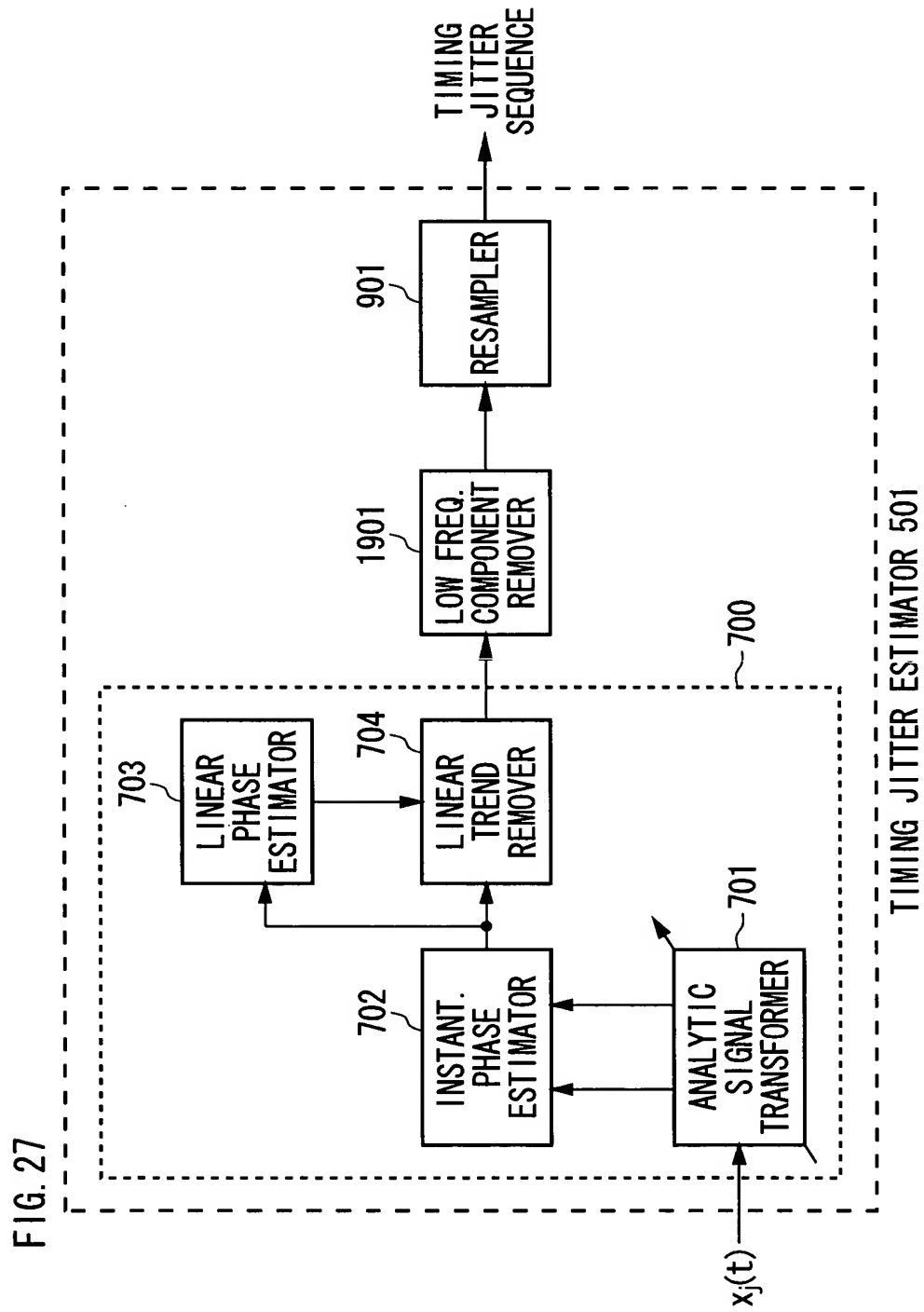
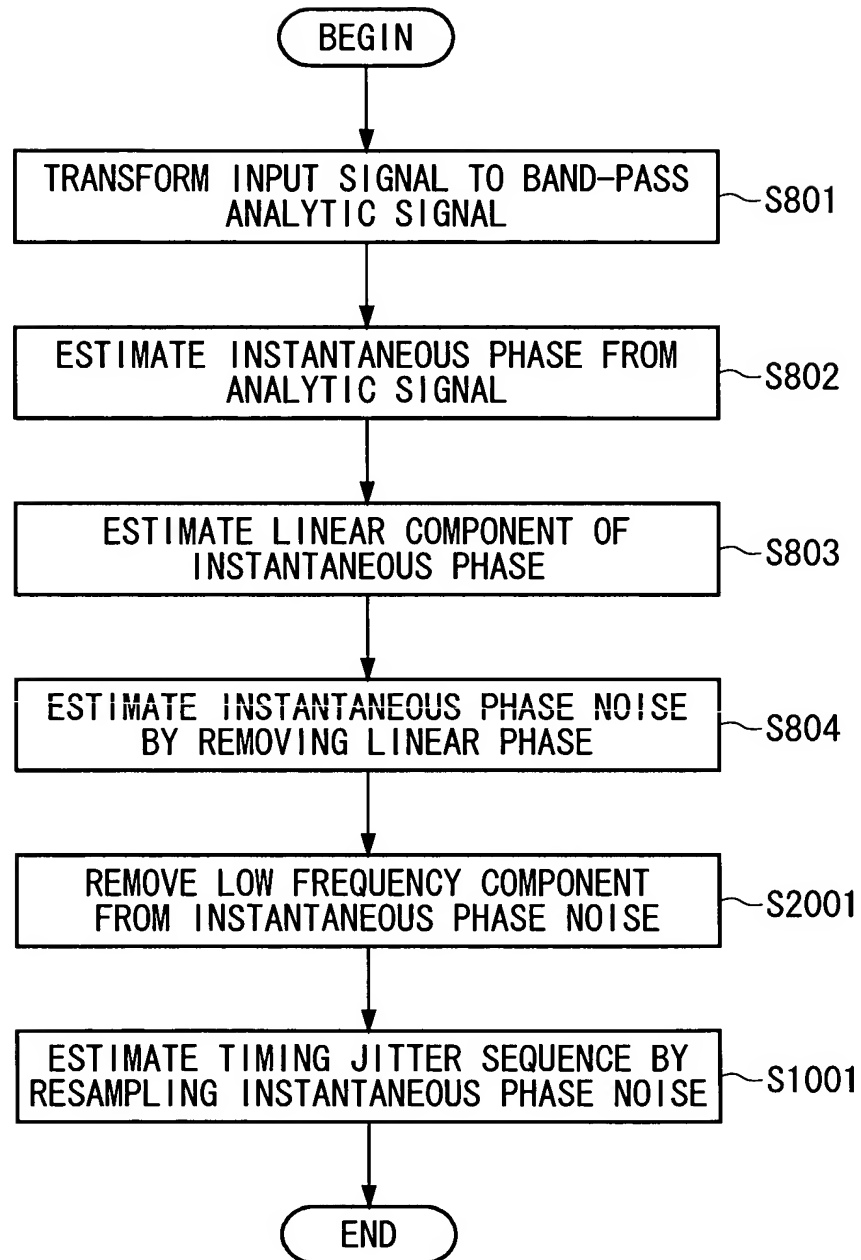


FIG. 28



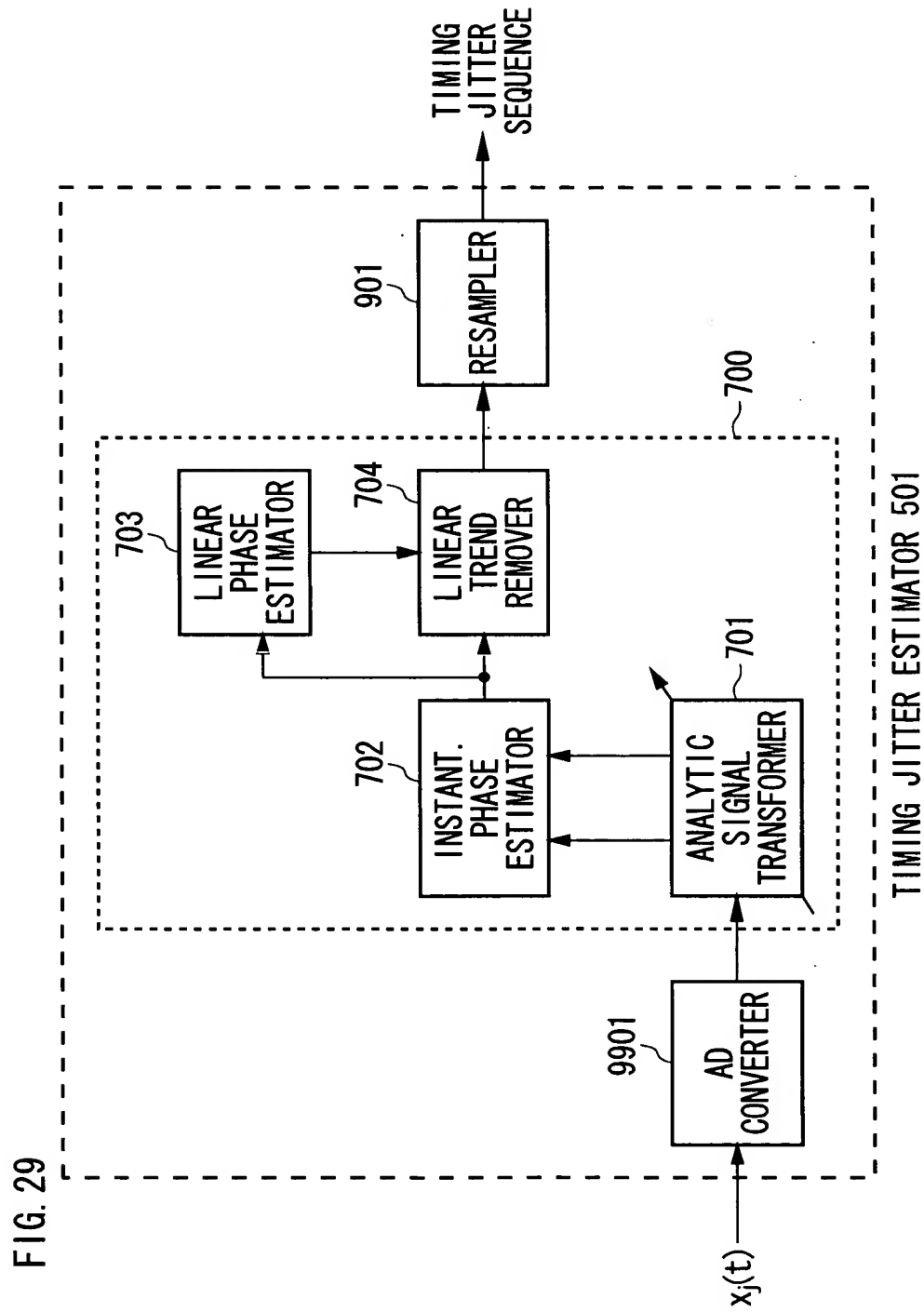


FIG. 30

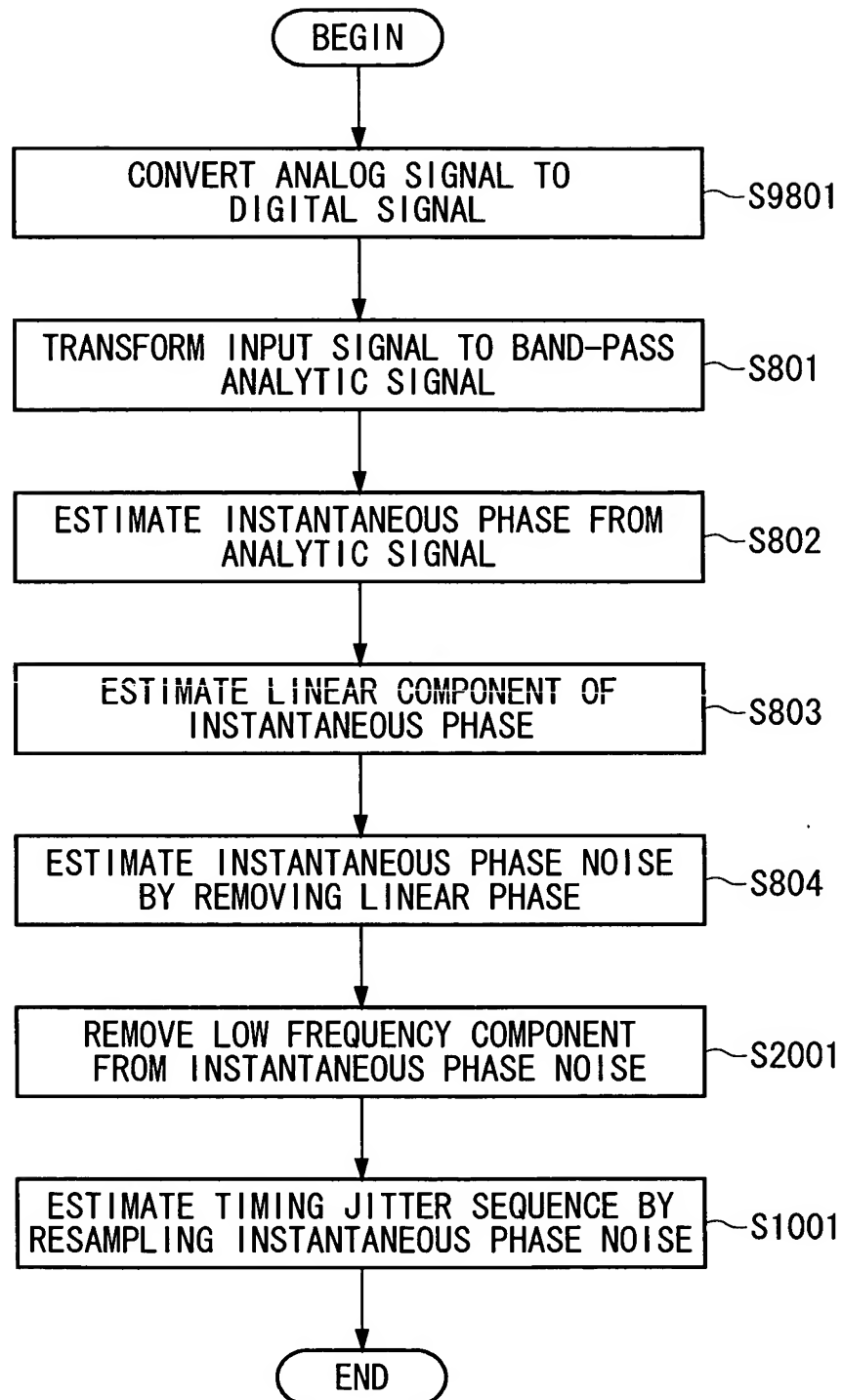


FIG. 31

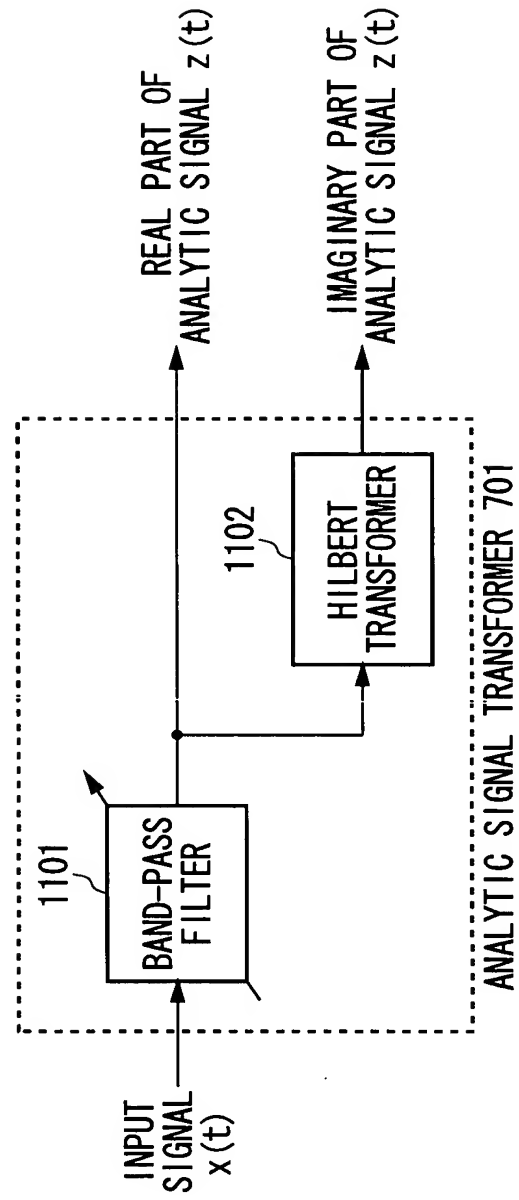


FIG. 32

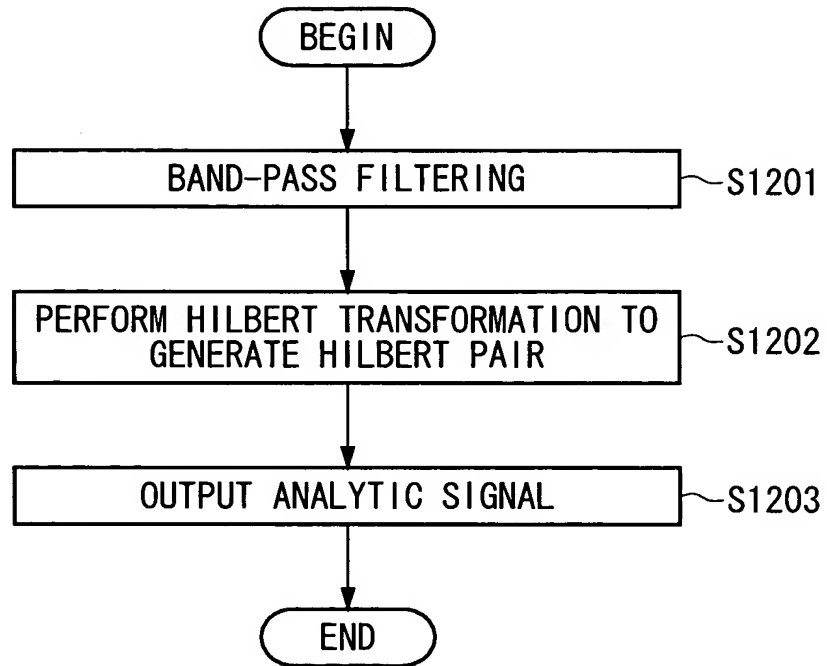


FIG. 33

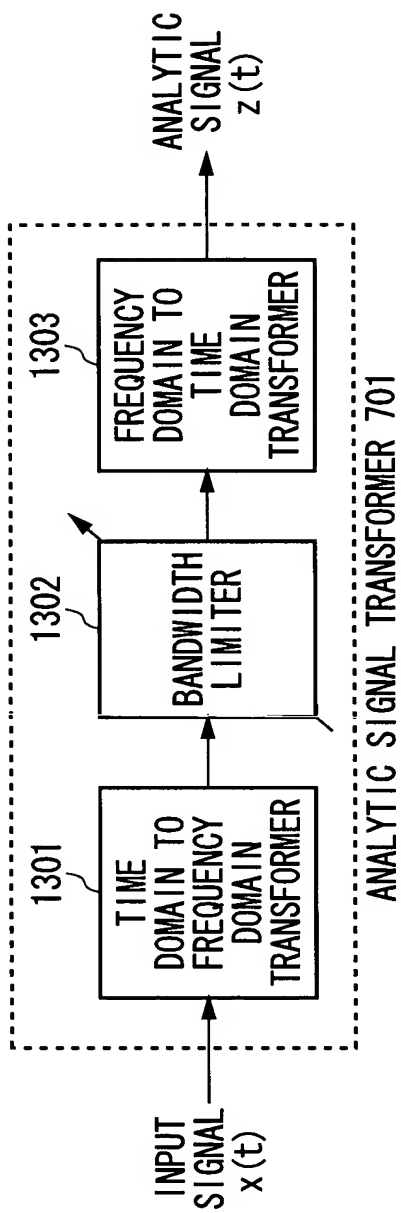




FIG. 34

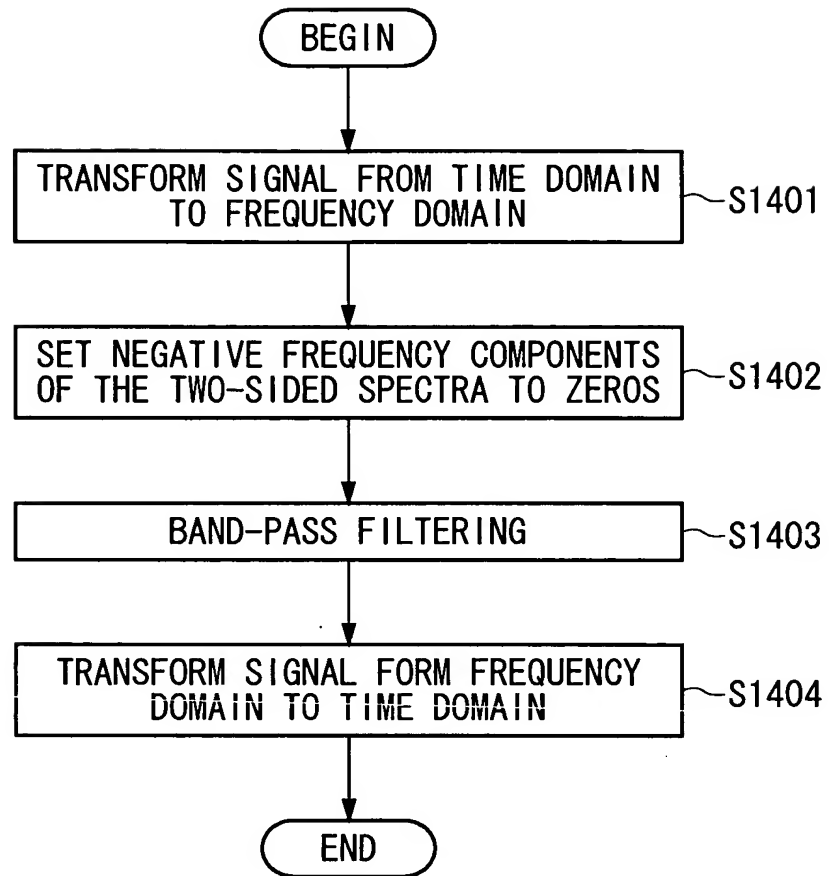


FIG. 35

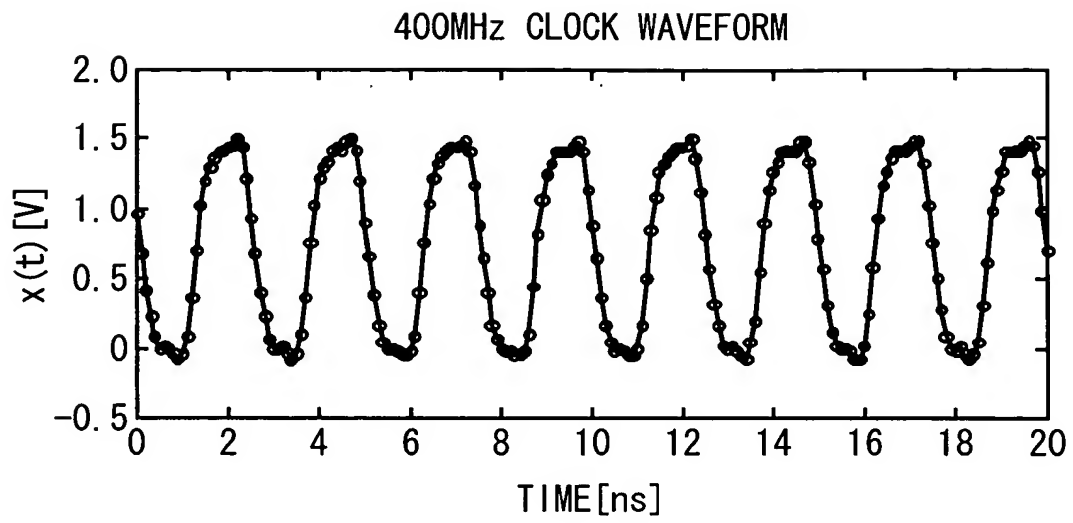


FIG. 36

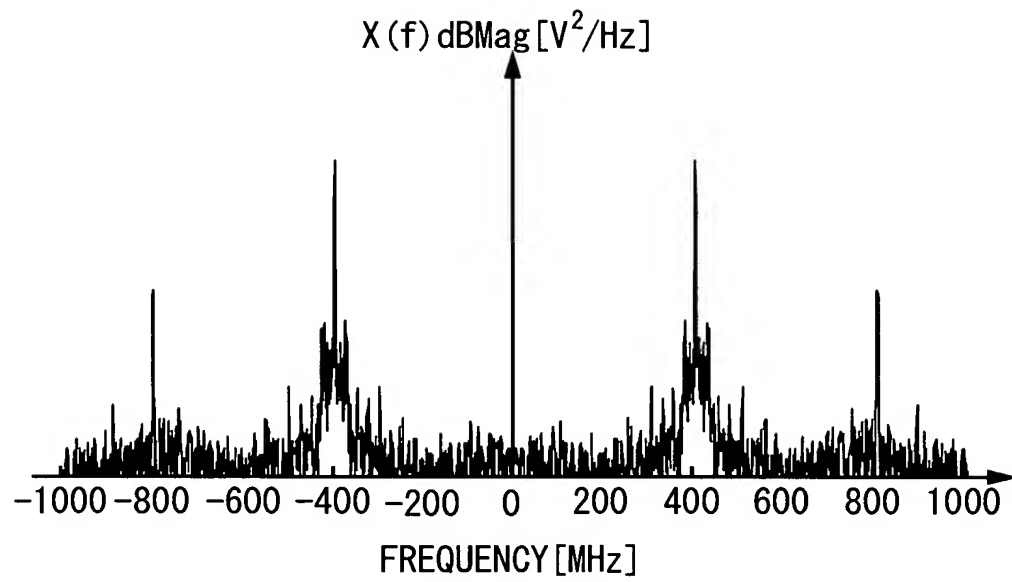


FIG. 37

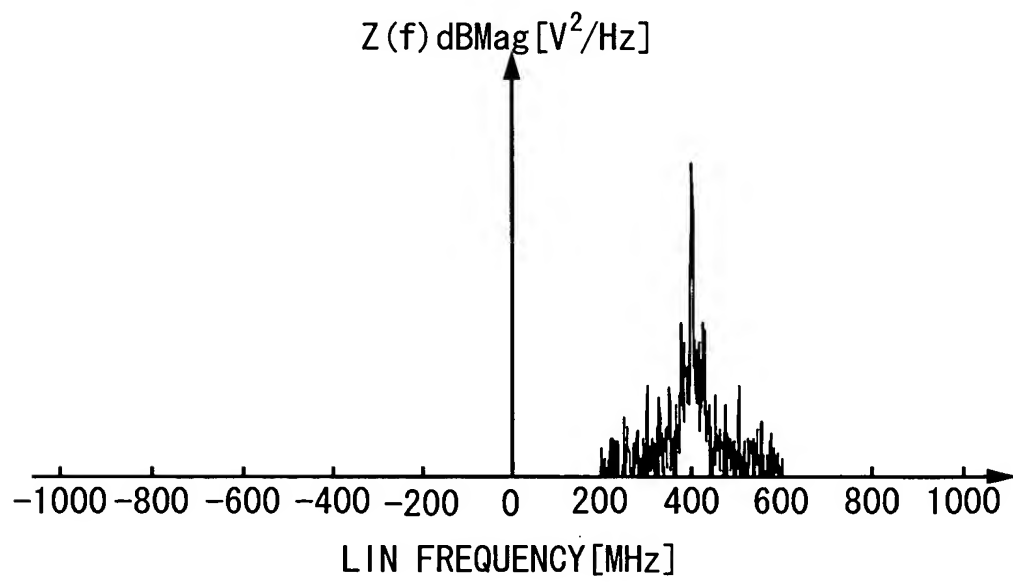


FIG. 38

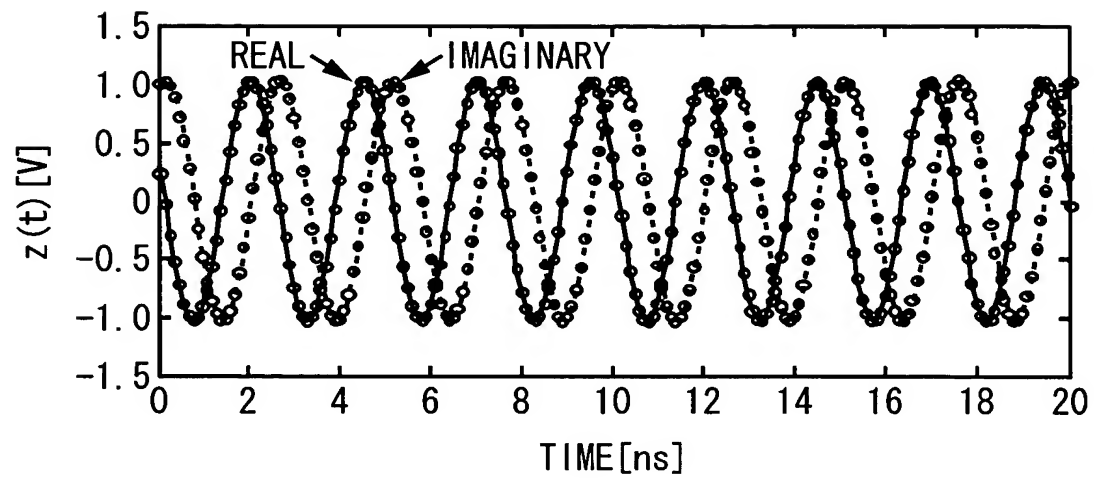


FIG. 39

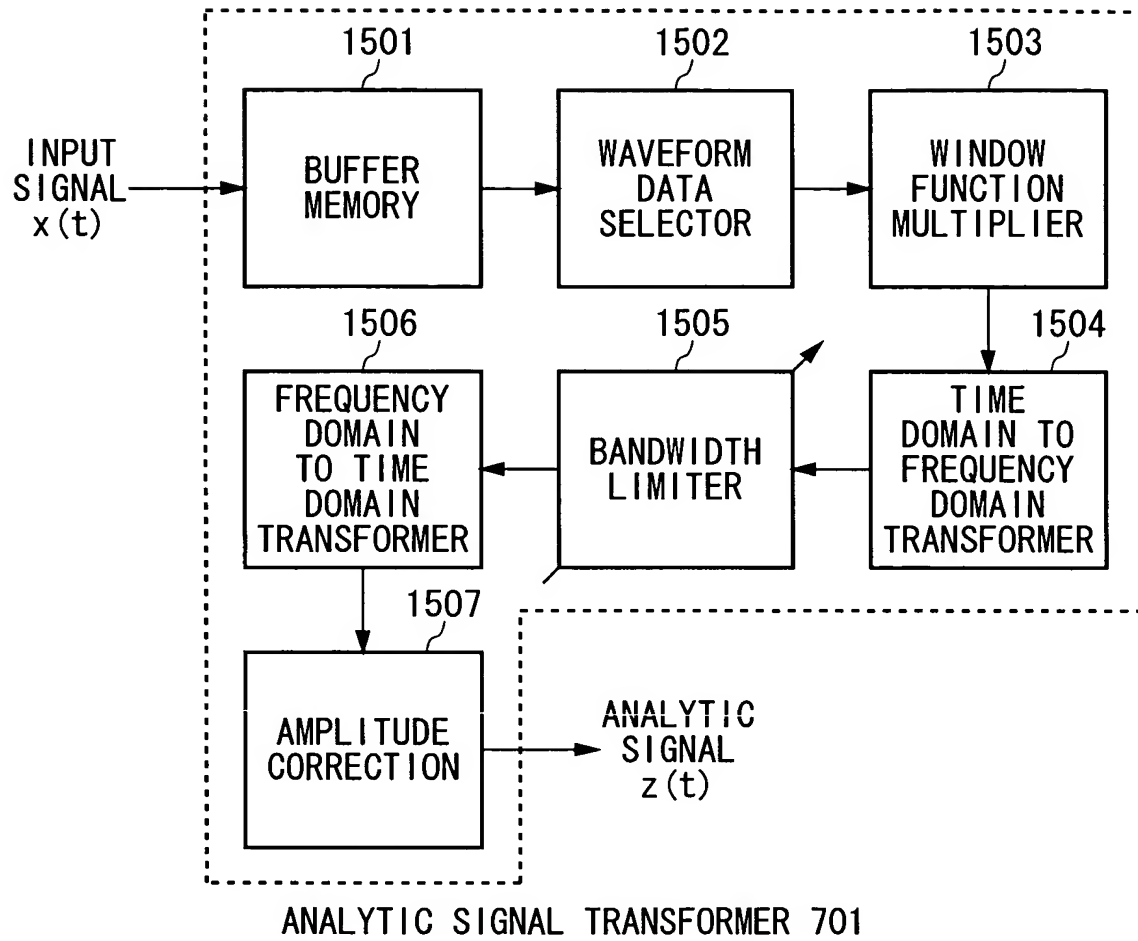


FIG. 40

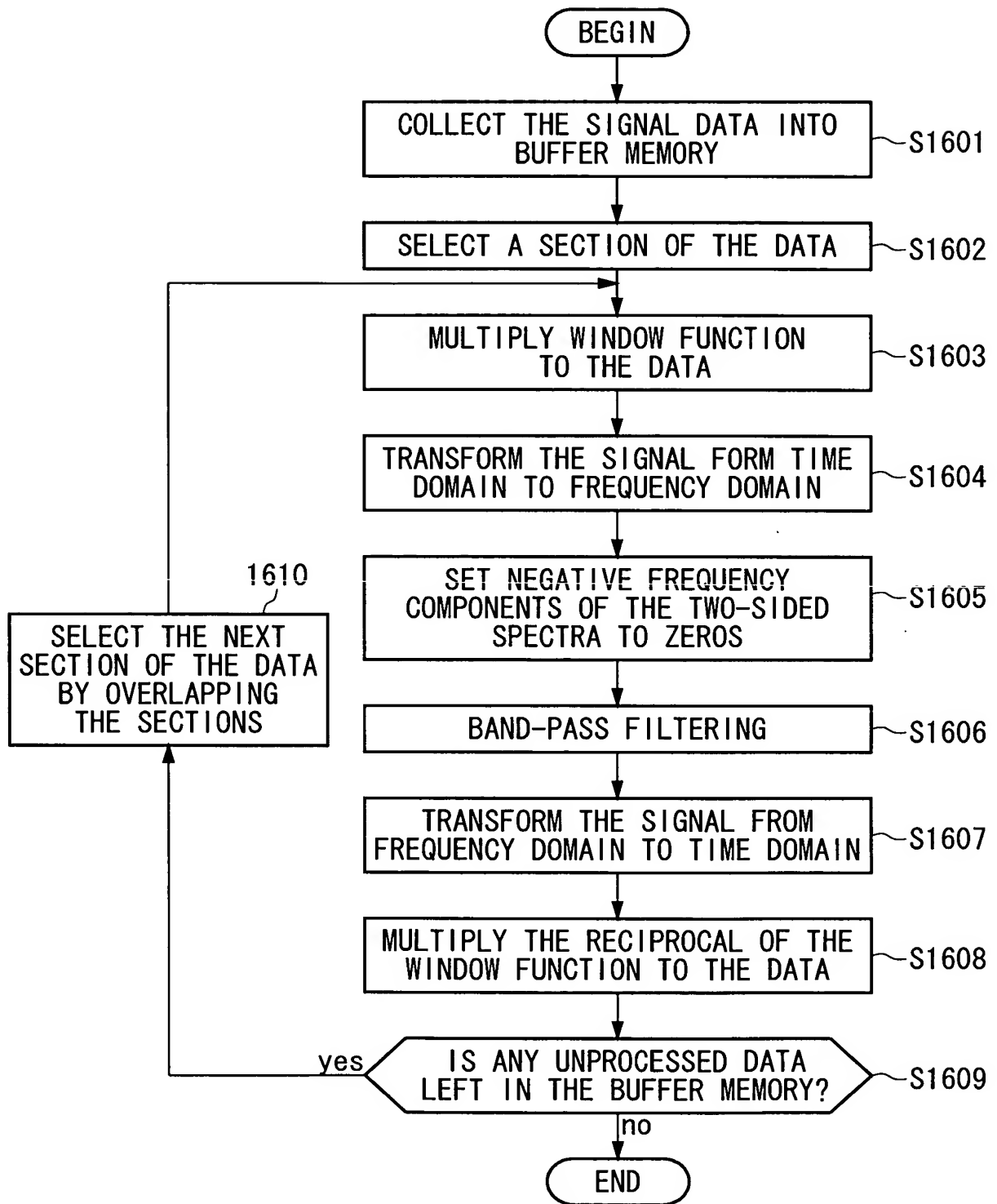


FIG. 41

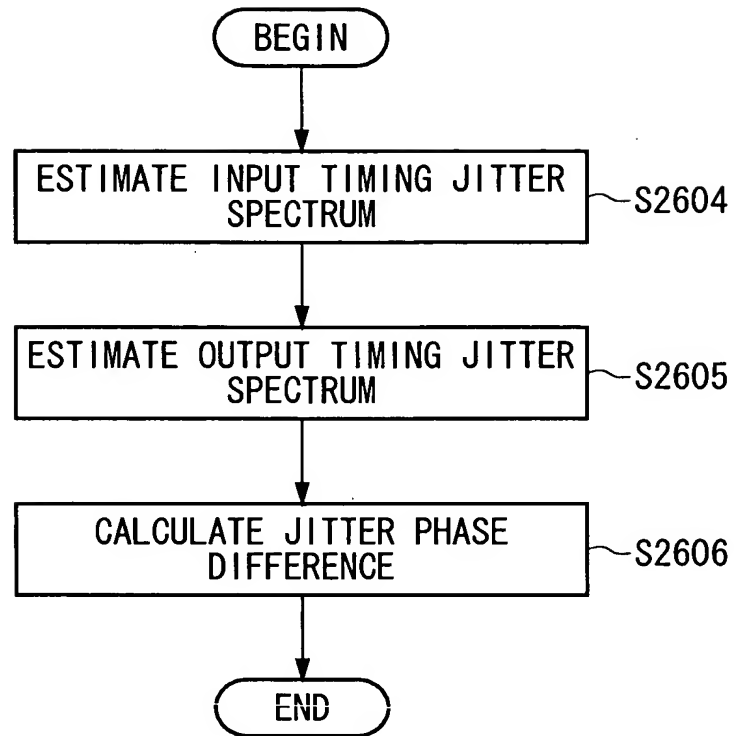


FIG. 42

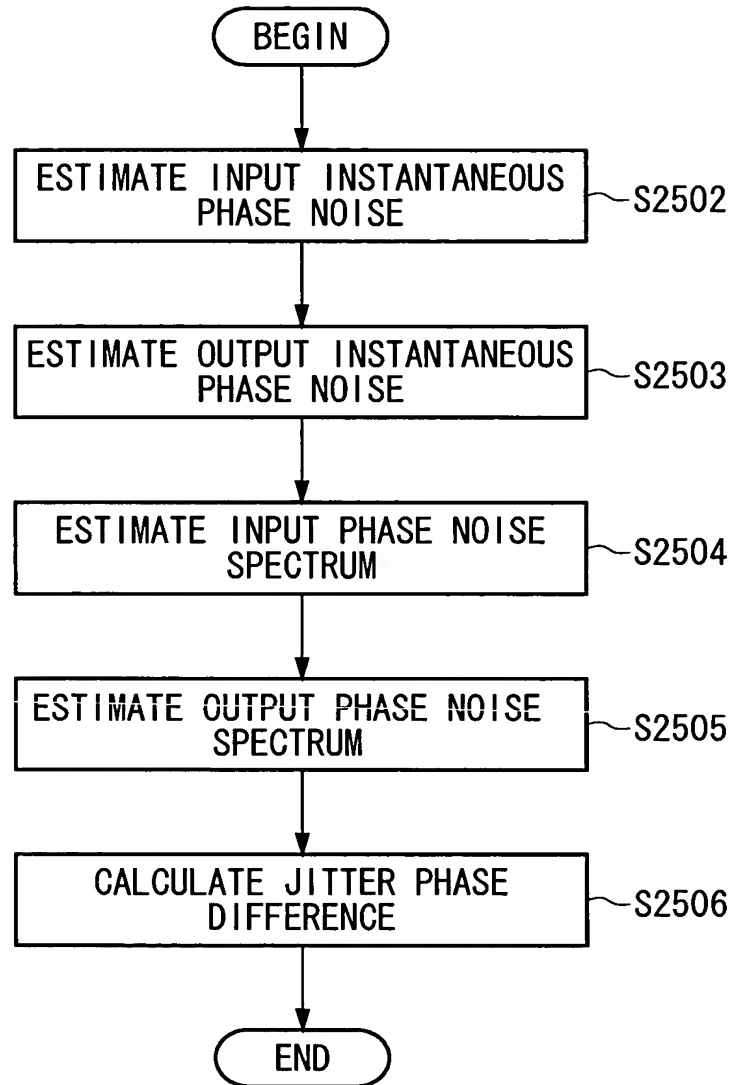




FIG. 43

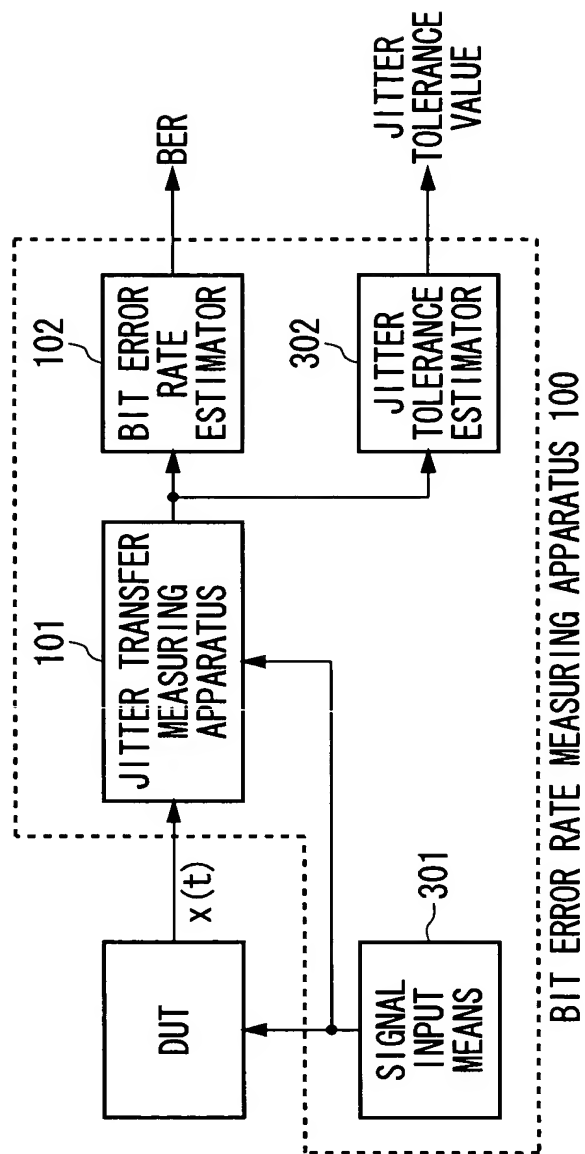


FIG. 44

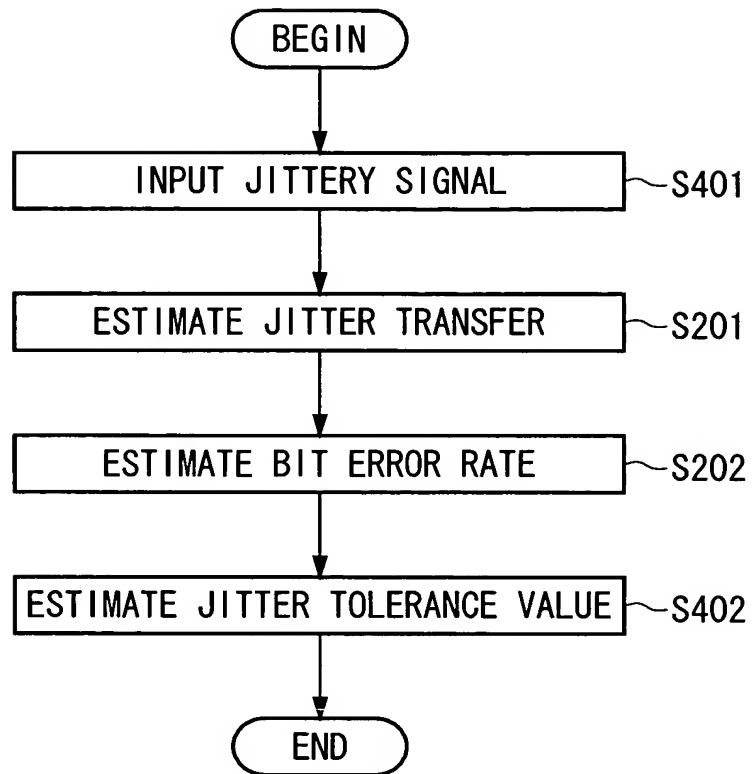


FIG. 45

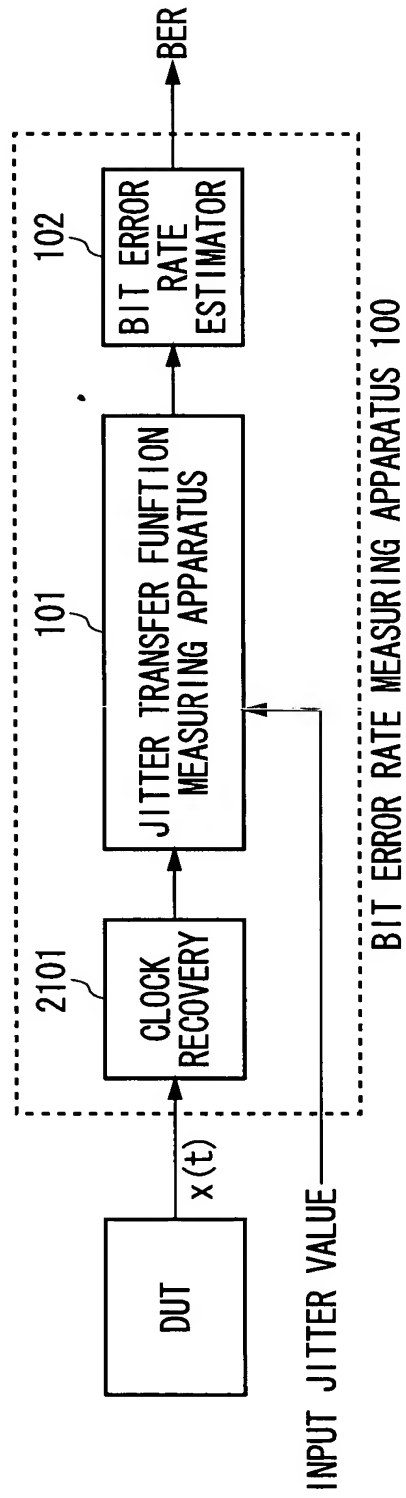


FIG. 46

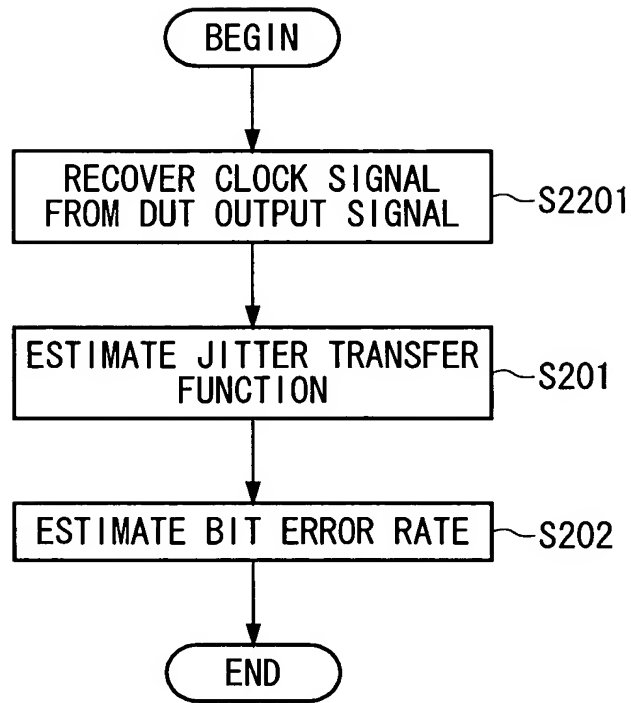


FIG. 47

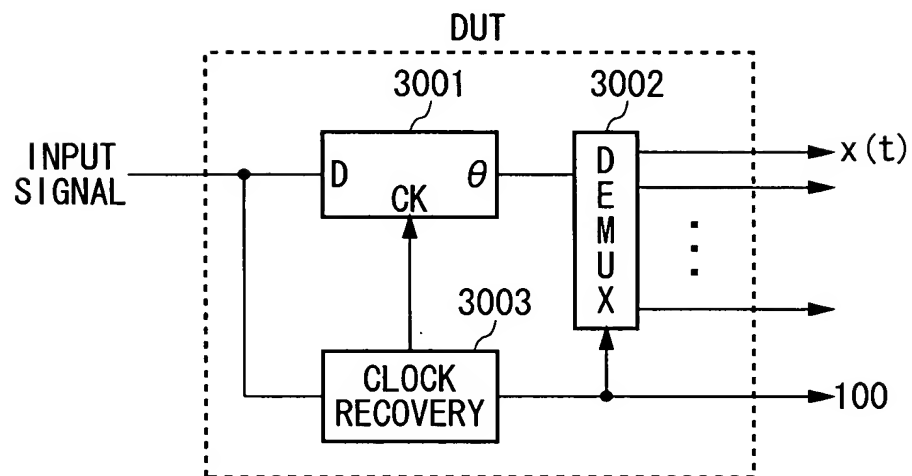


FIG. 48

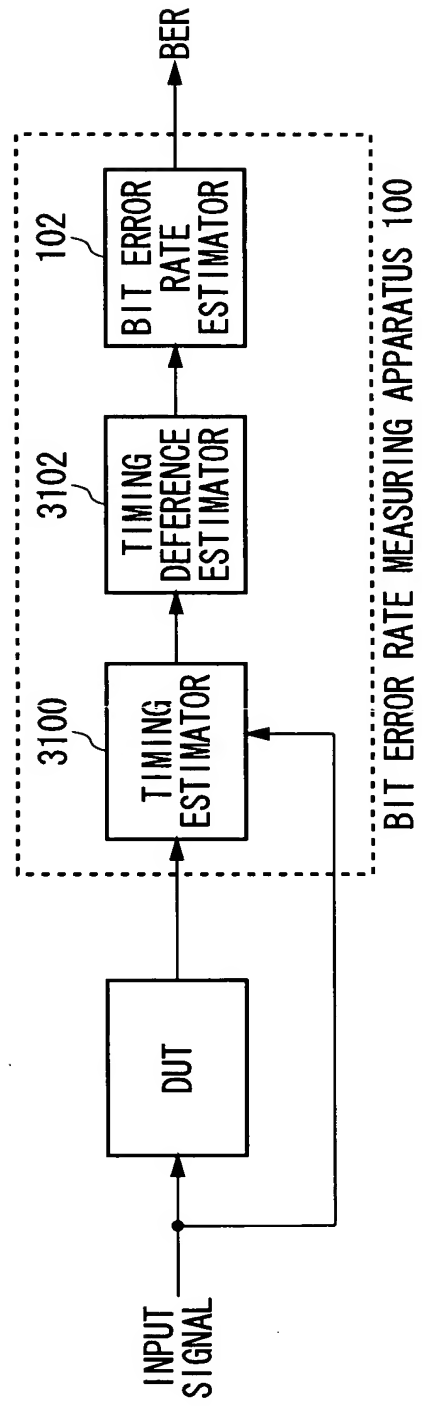


FIG. 49

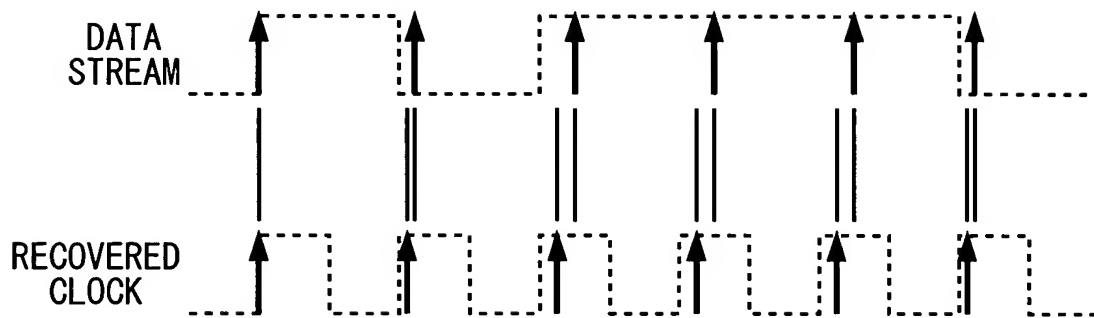


FIG. 50

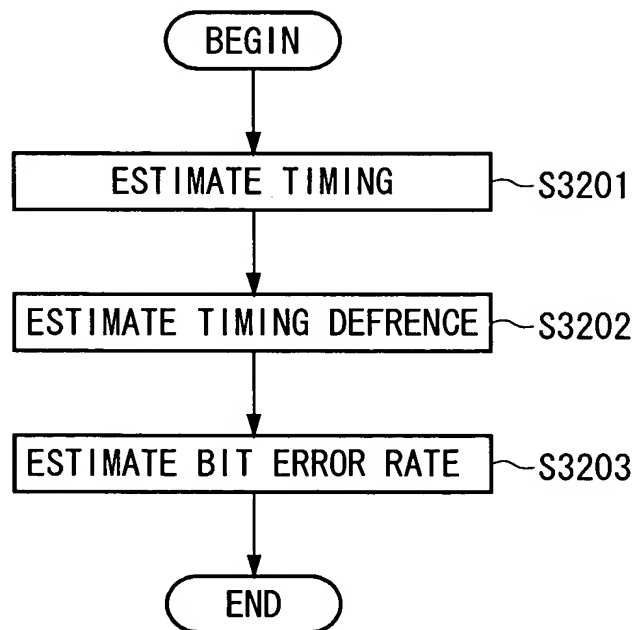


FIG. 51

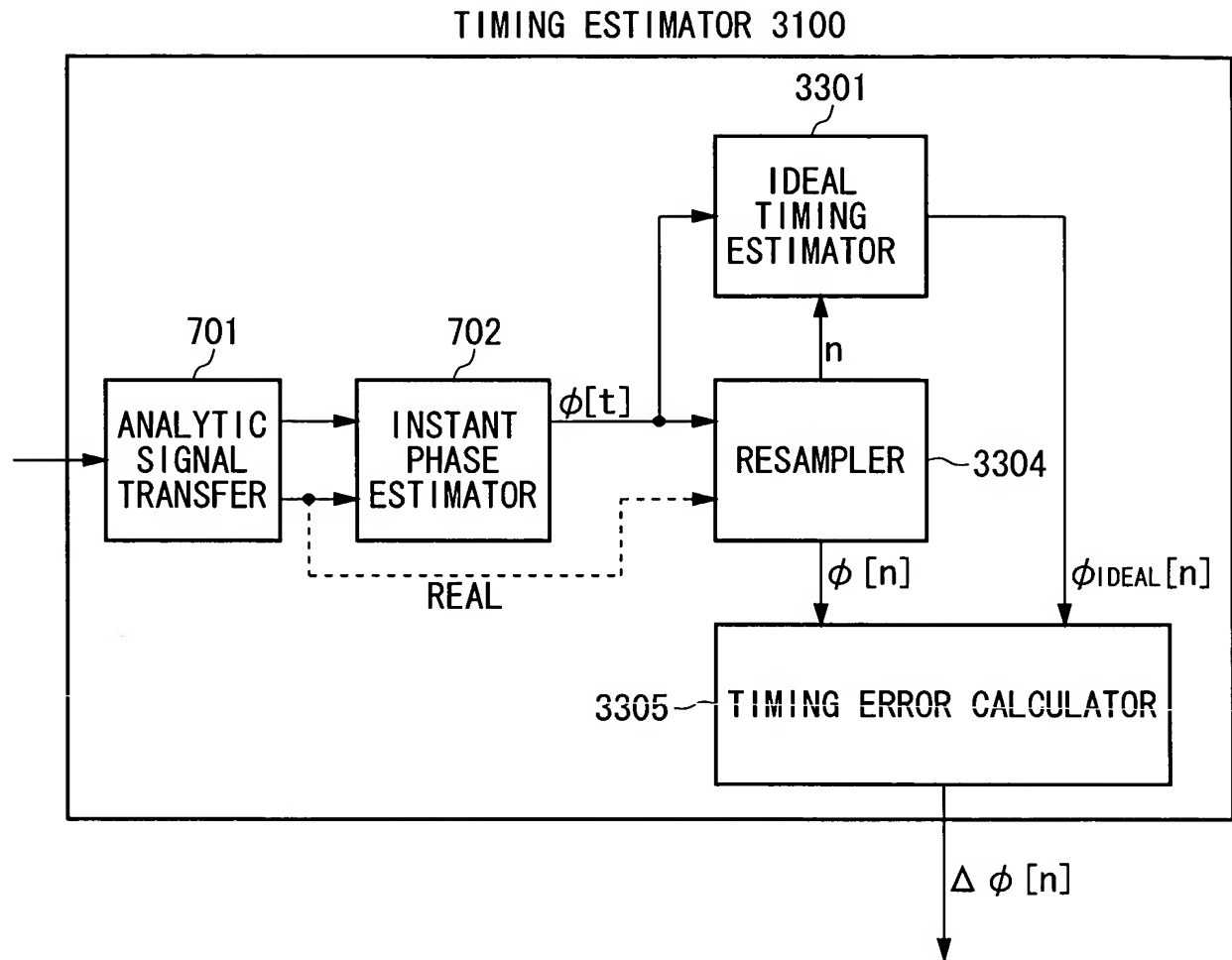


FIG. 52

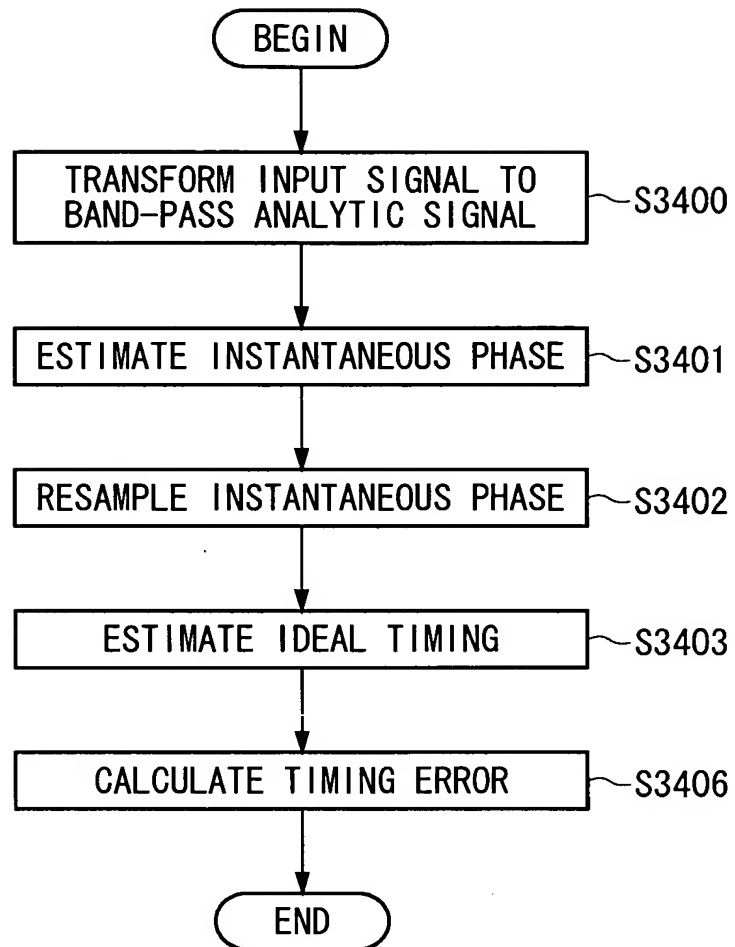
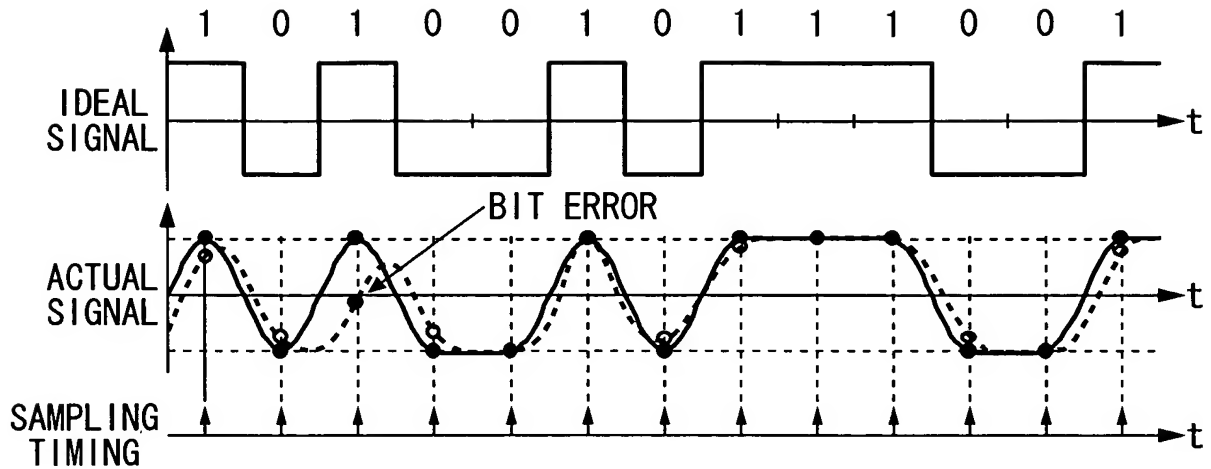




FIG. 53



$$\text{BER} = \frac{\text{NUMBER OF BITS DETECTED IN ERROR IN A TIME INTERVAL}}{\text{TOTAL NUMBER OF BITS TRANSMITTED IN A TIME INTERVAL}}$$

FIG. 54

	CONVENTIONAL (BERT-BASED)	$\Delta \phi$ METHOD
# OF MEASUREMENTS	20	4
TIME PER MEASUREMENTS	1sec	0.5sec
TOTAL TESTING TIME	20sec	2sec

FIG. 55

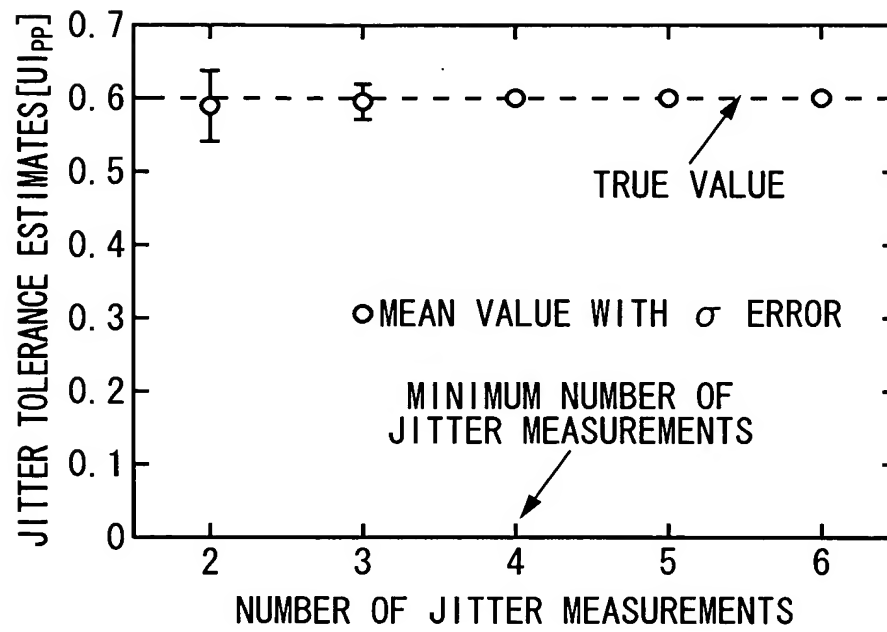


FIG. 56

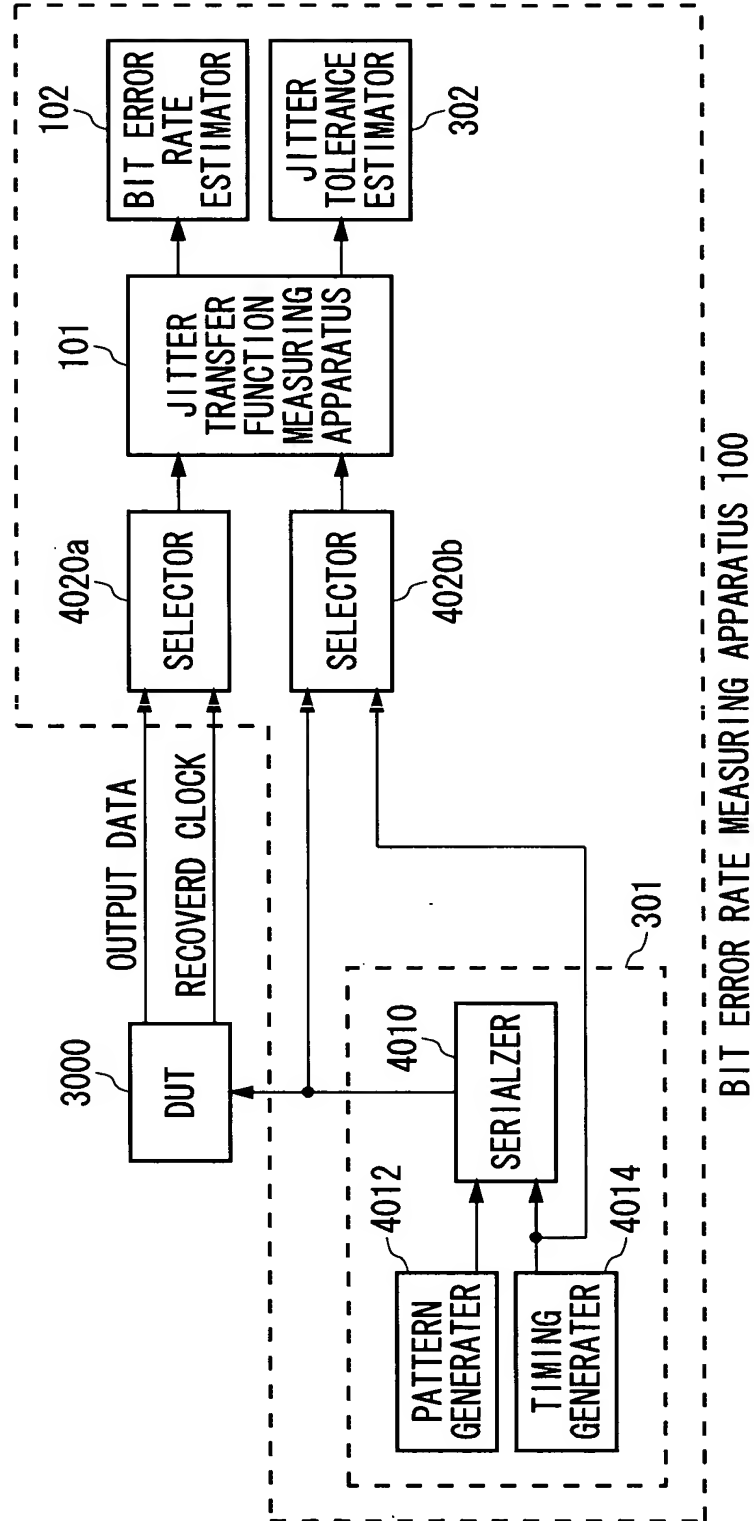


FIG. 57

DATA A	1	1	0	0	0	1	1	0	0	1	1	0	1	0	0	1	0	0	1	0	1	1	0	...		
DATA B	<u>1</u>	1	0	0	1	0	0	1	<u>0</u>	0	1	1	1	0	0	1	<u>1</u>	0	1	1	0	1	1	1	0	...
DATA C	<u>1</u>	1	1	1	1	1	1	1	<u>0</u>	0	0	0	0	0	0	0	<u>1</u>	1	1	1	1	1	1	1	0	...

FIG. 58

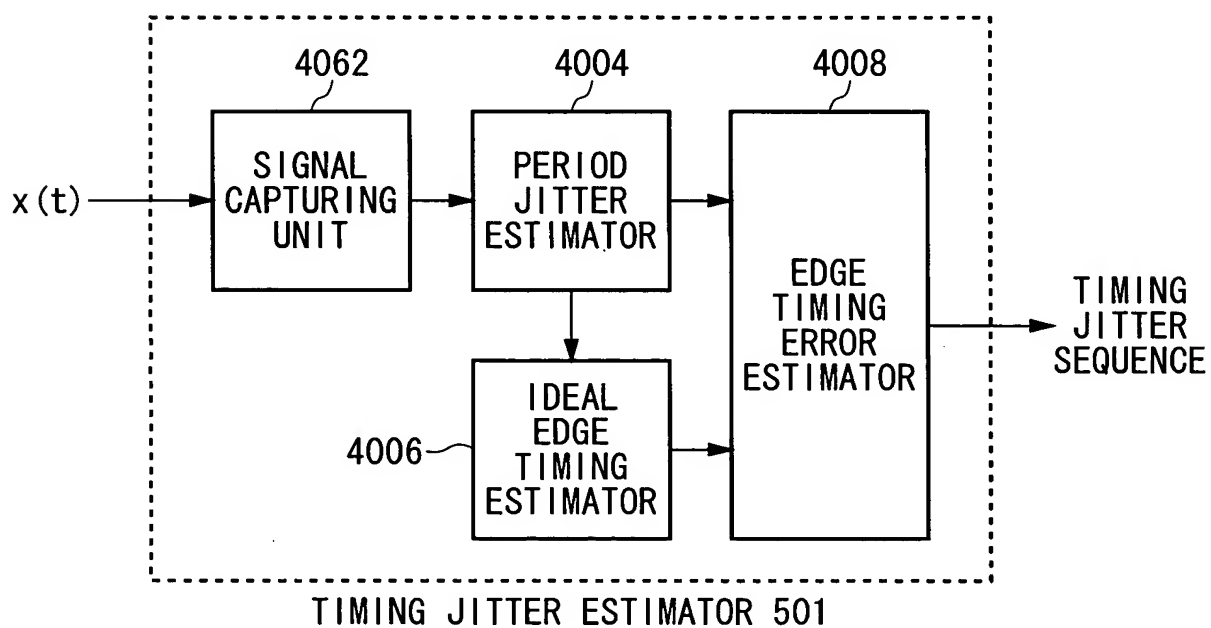


FIG. 59

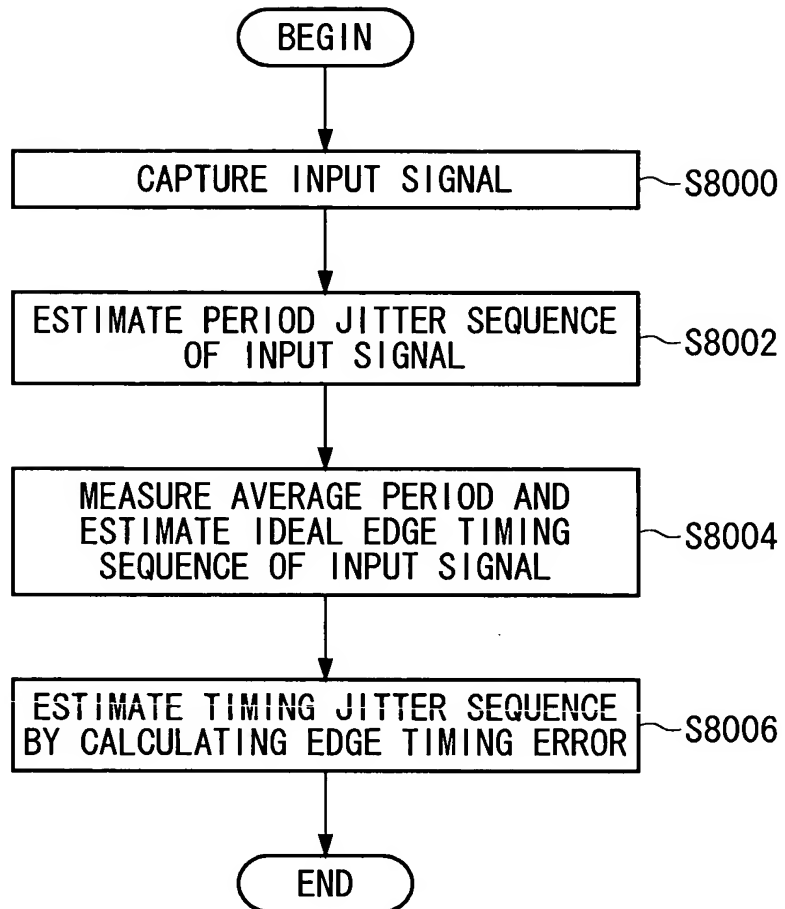


FIG. 60

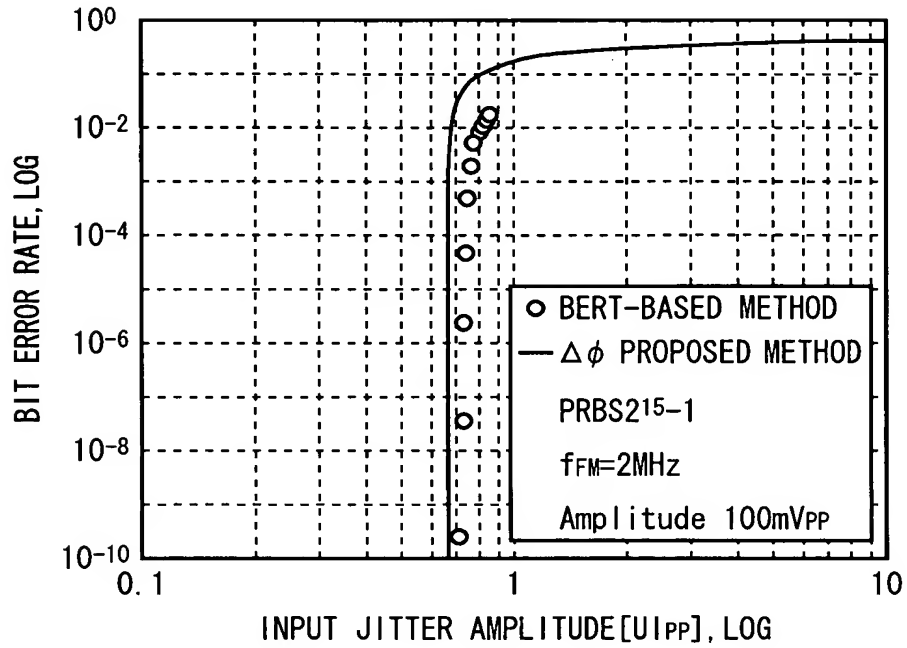


FIG. 61

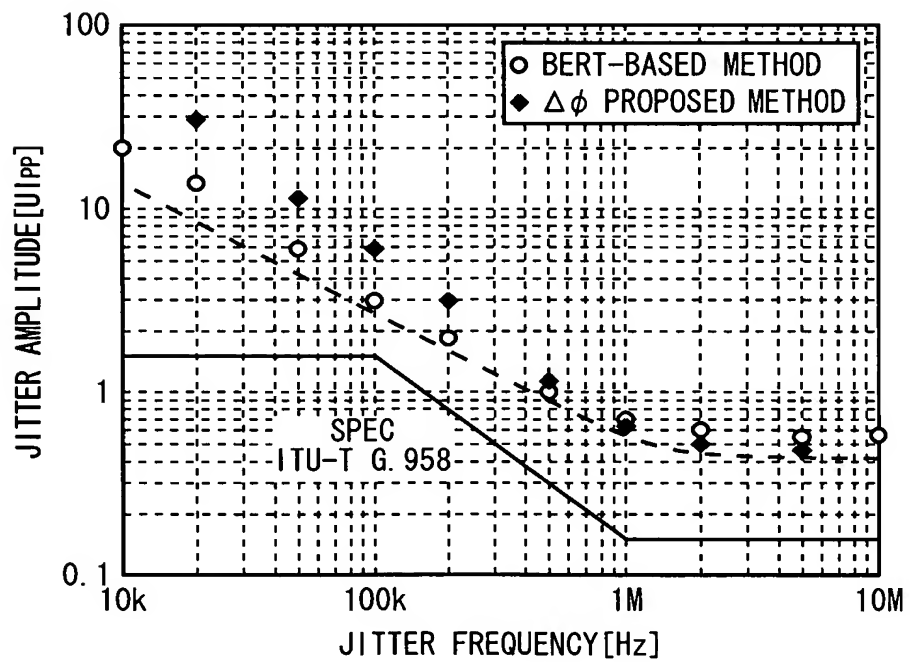


FIG. 62

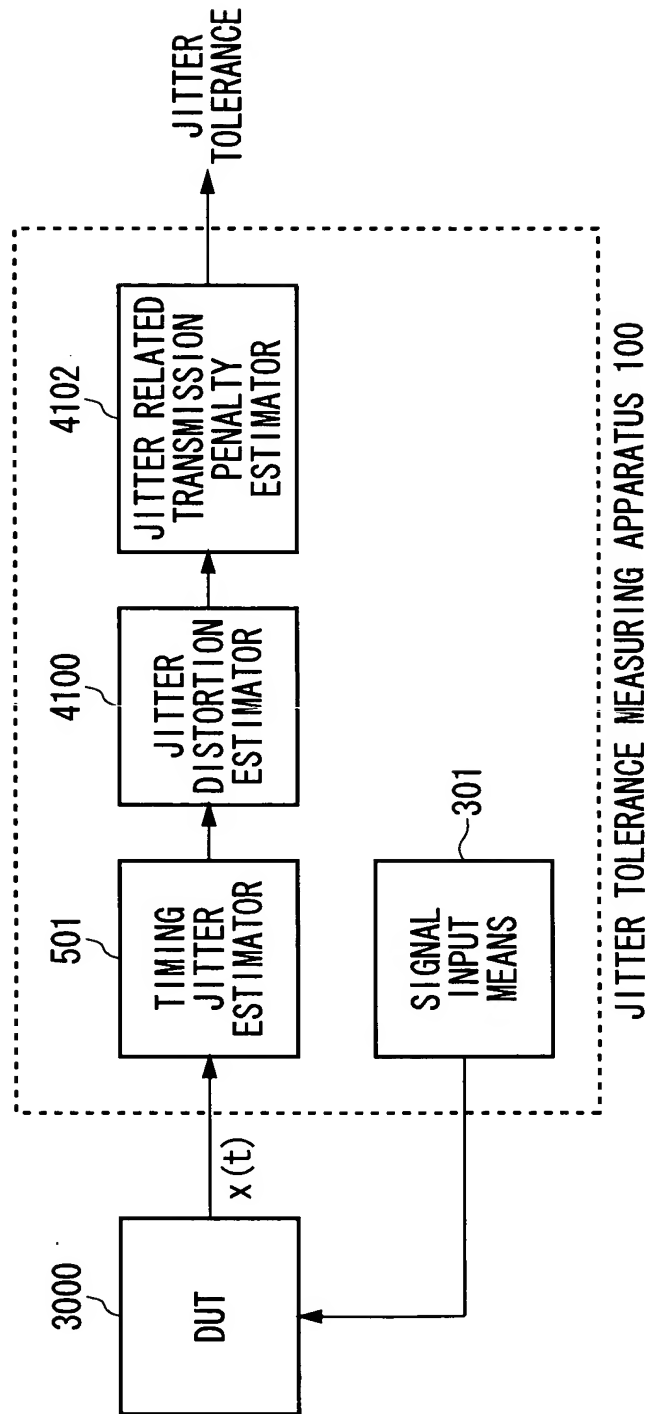


FIG. 63

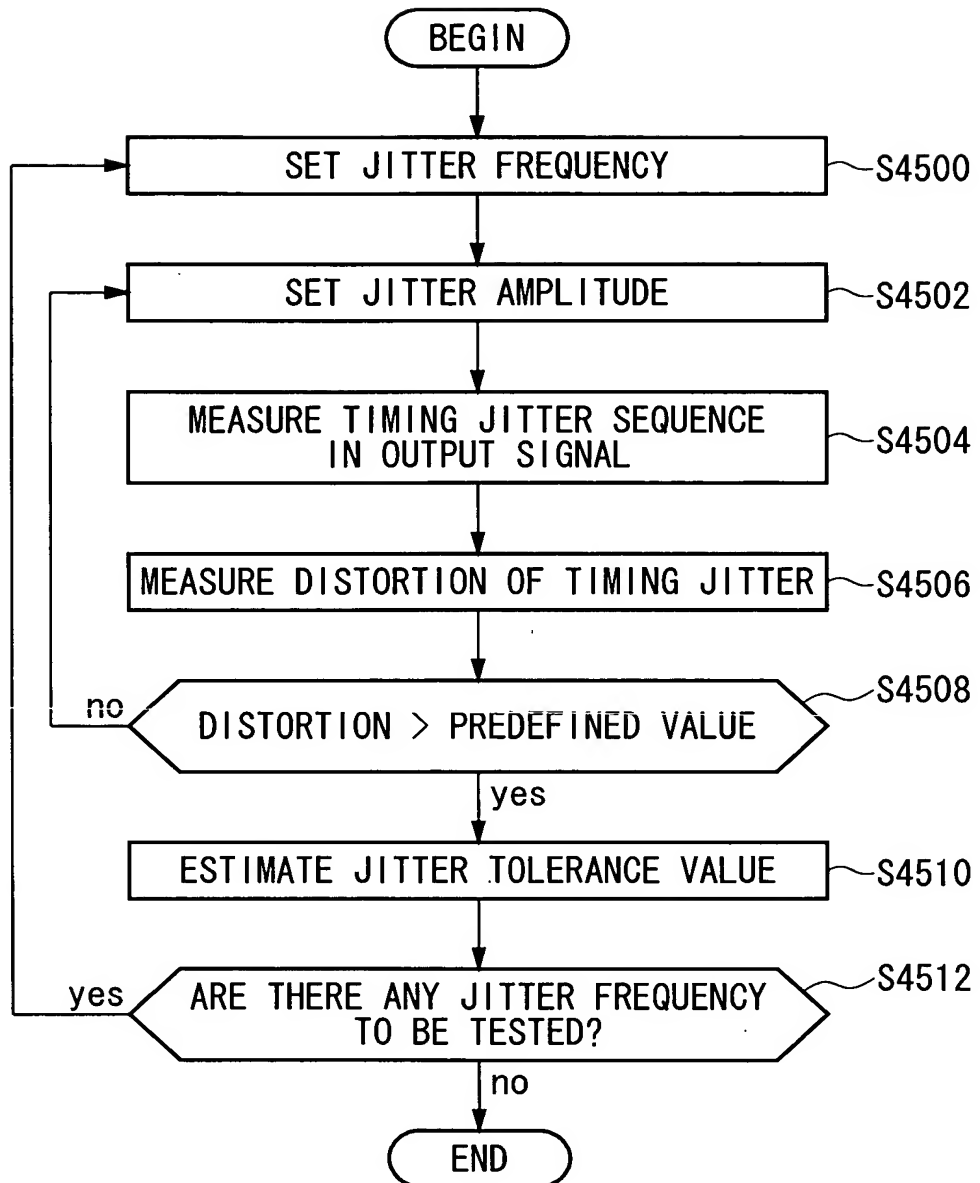




FIG. 64

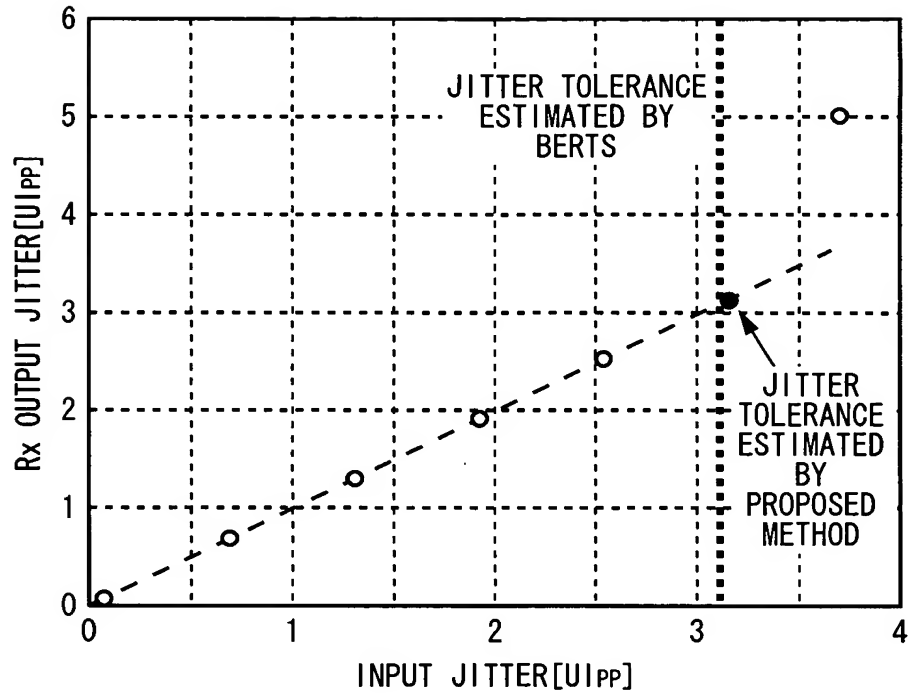


FIG. 65

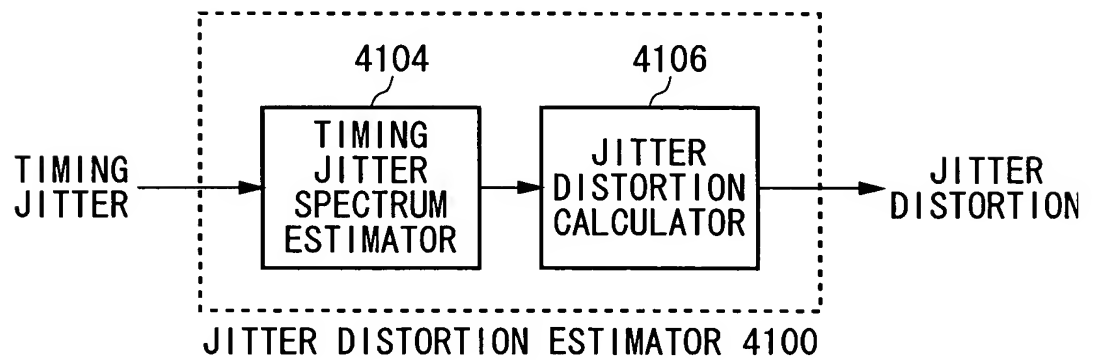


FIG. 66

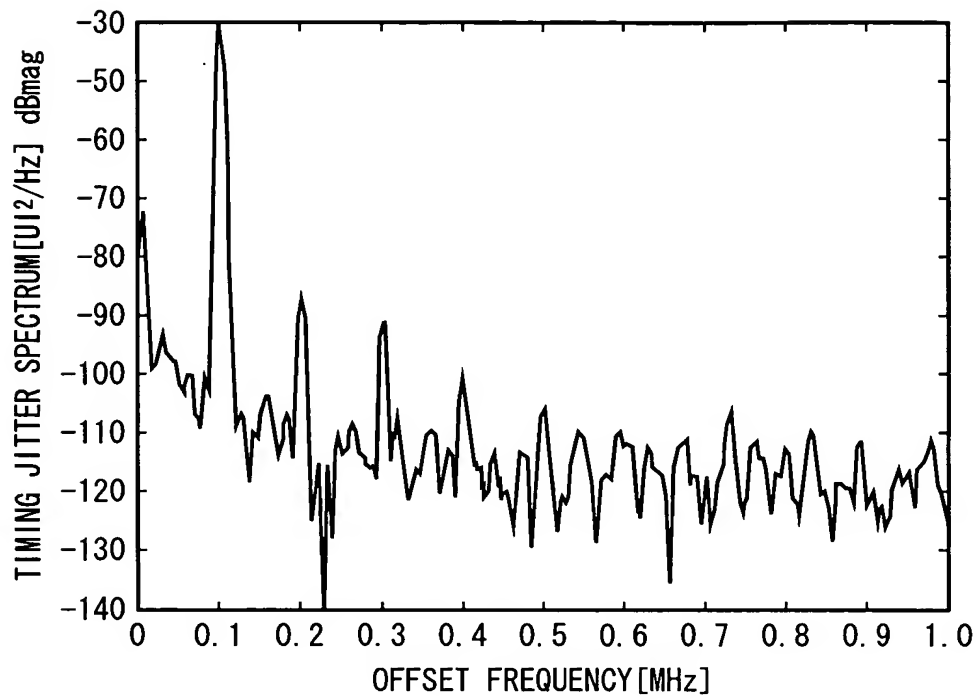


FIG. 67

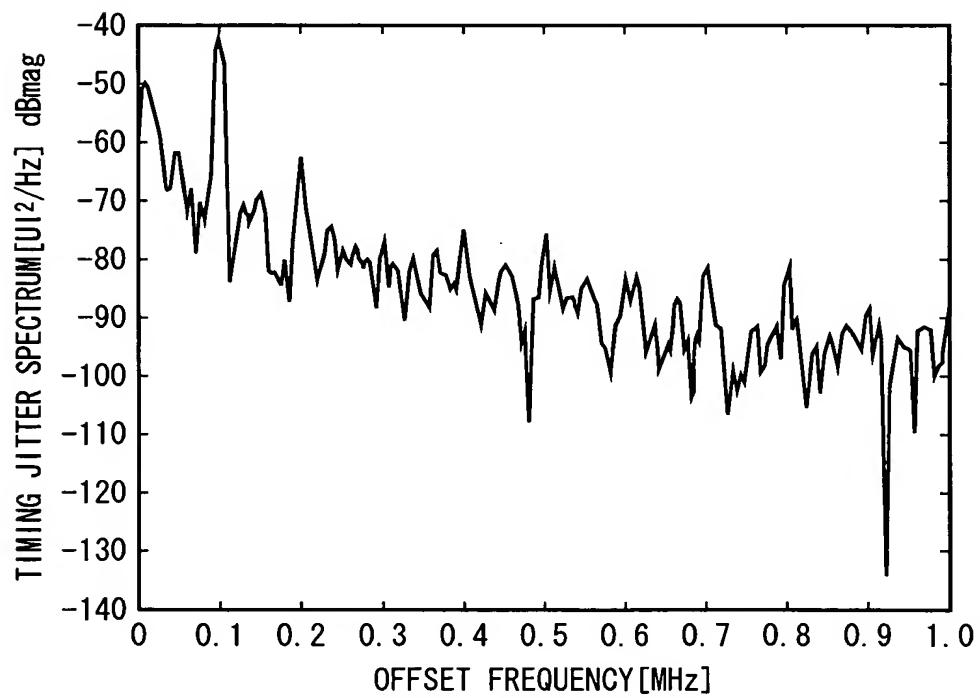


FIG. 68

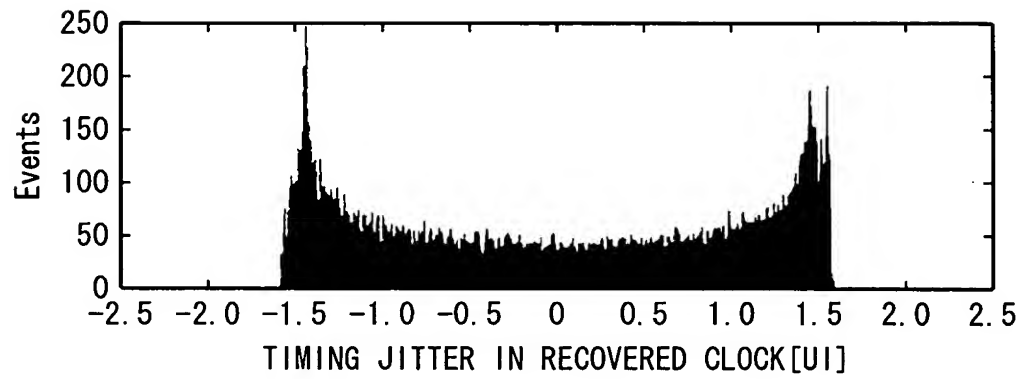


FIG. 69

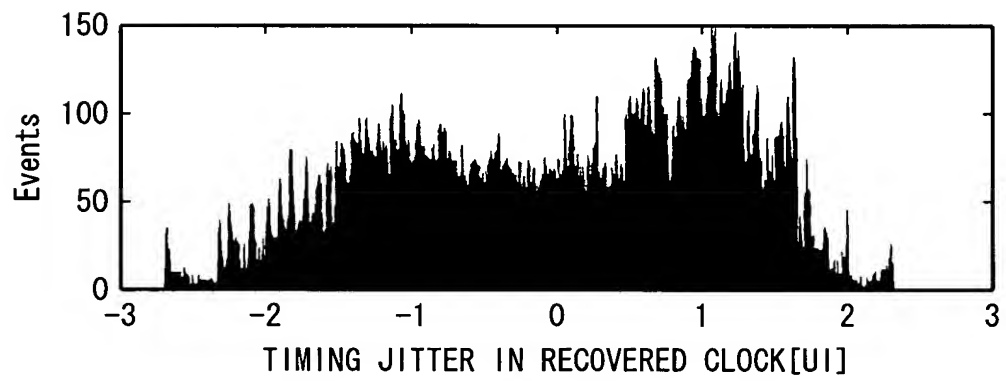


FIG. 70

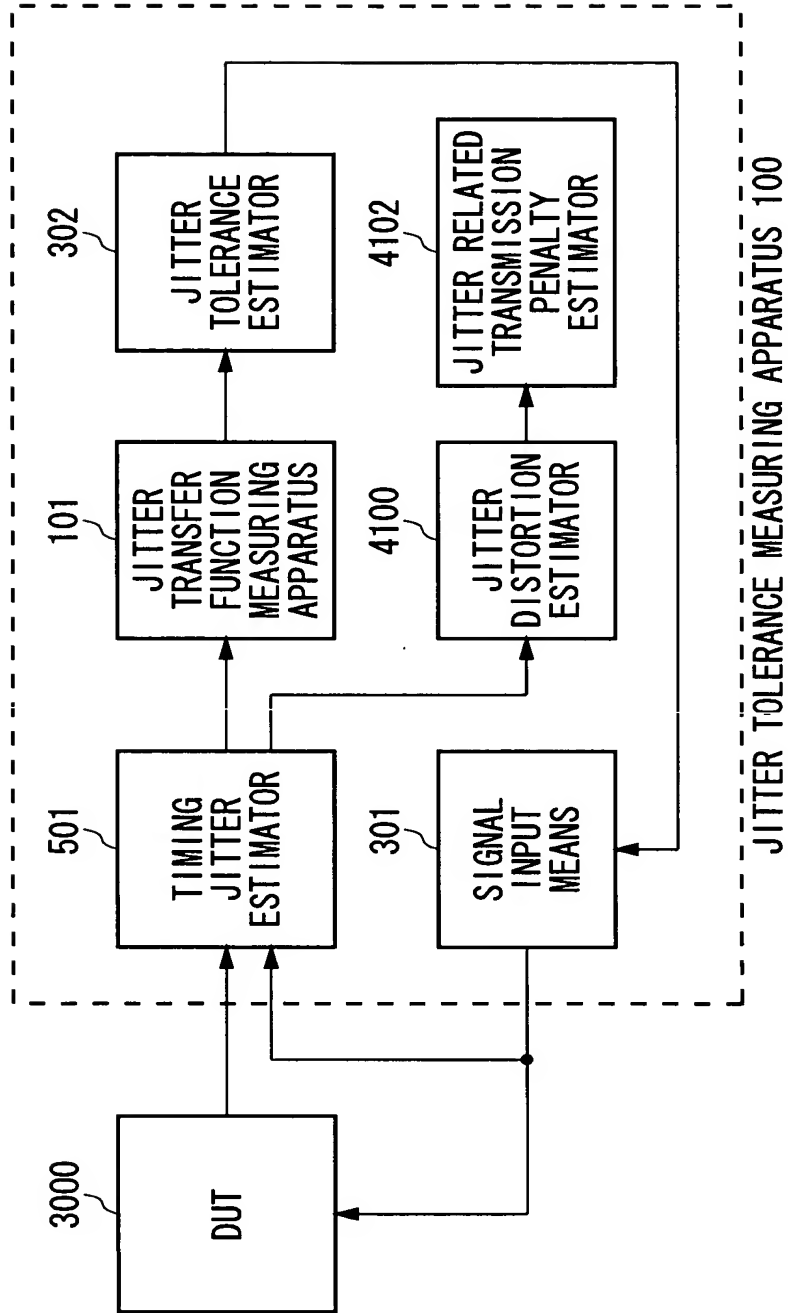


FIG. 71

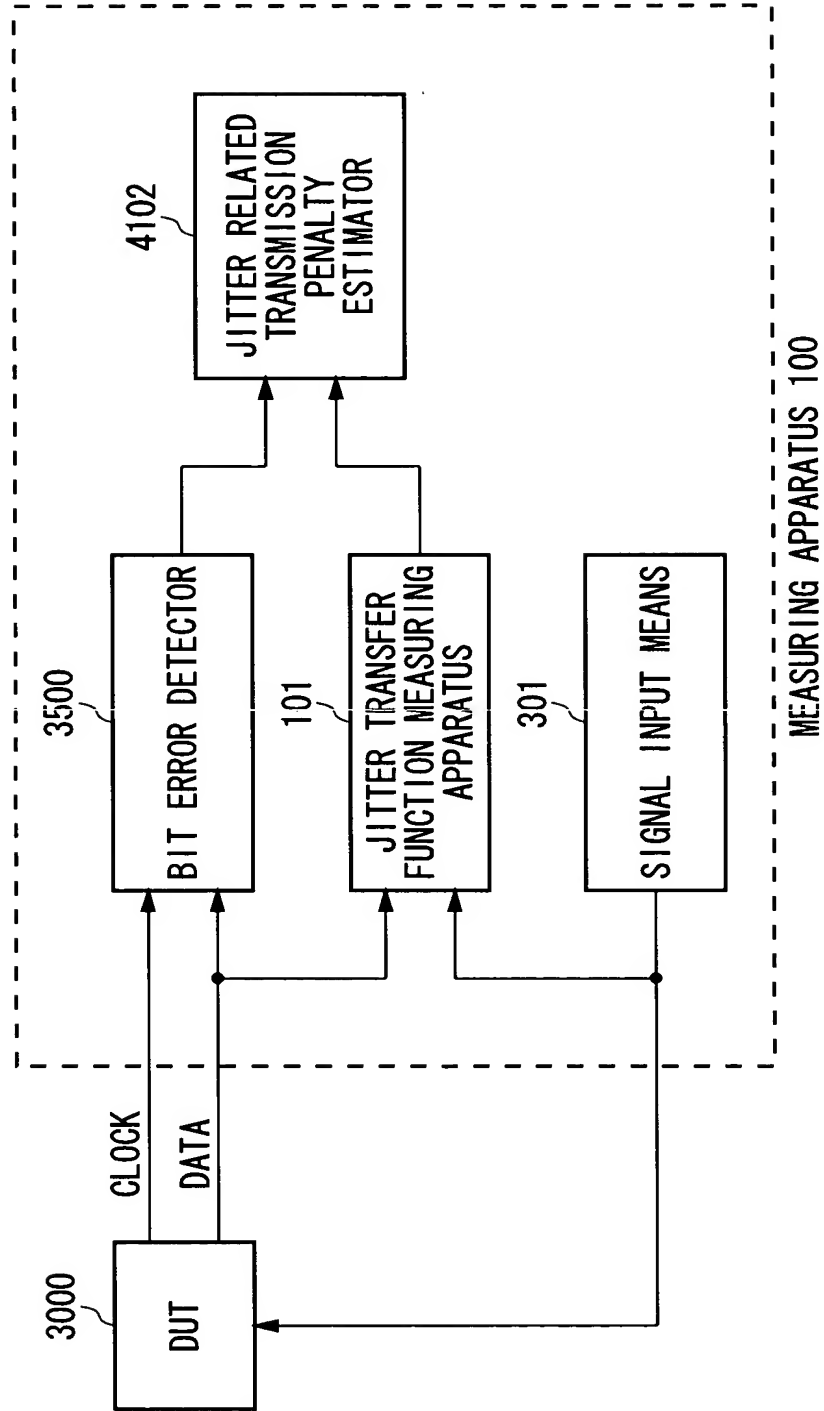


FIG. 72

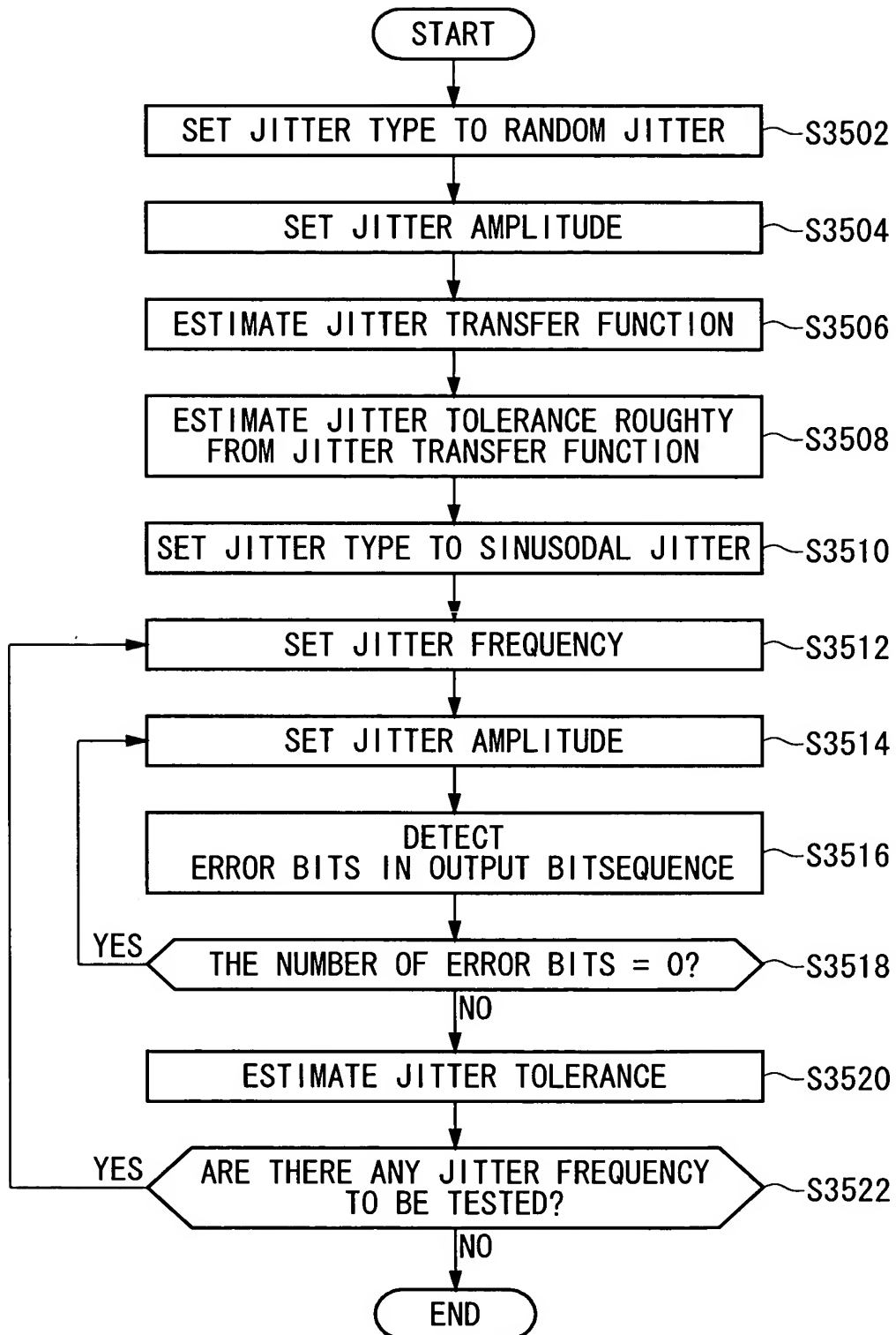


FIG. 73

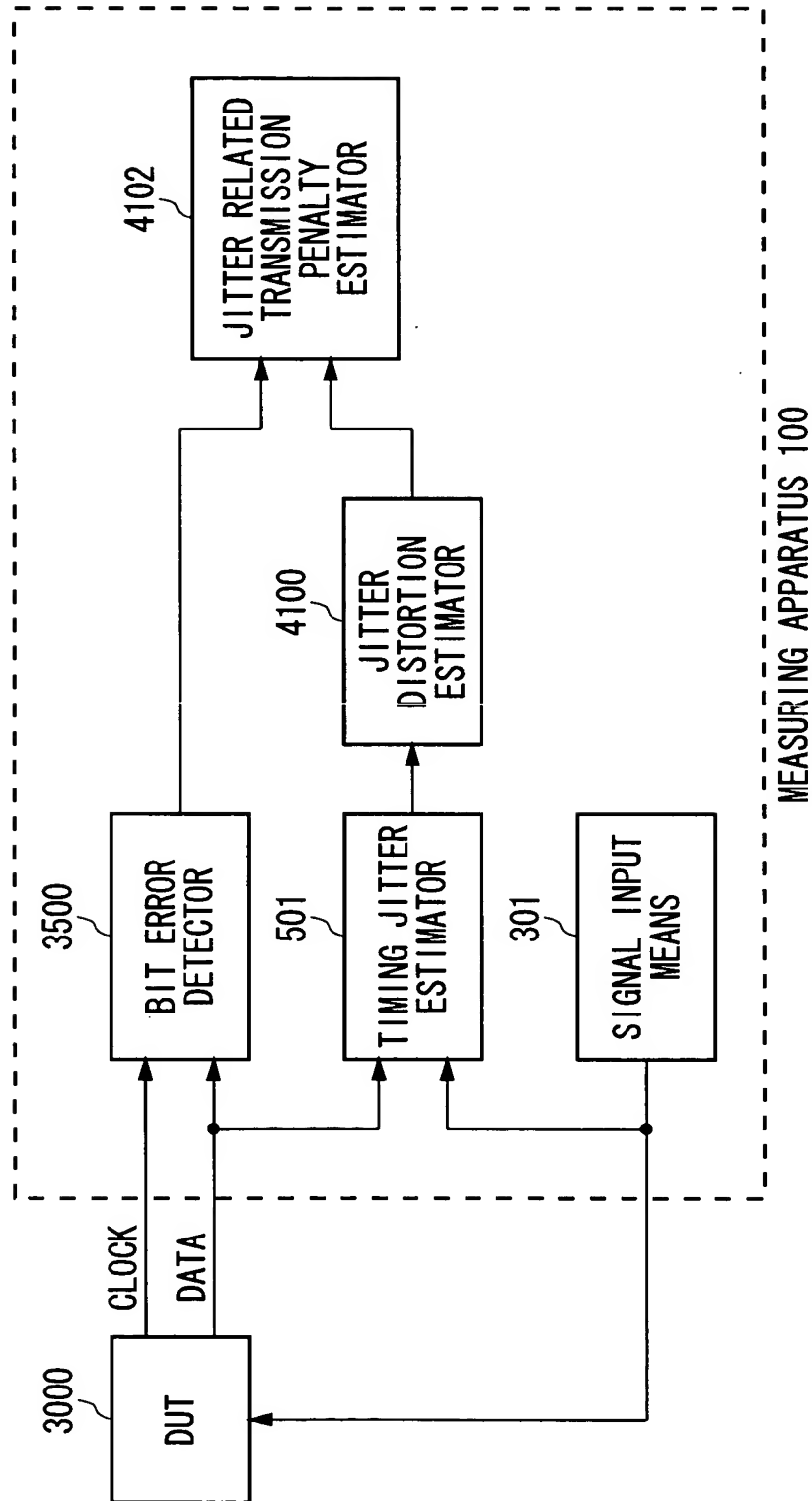






FIG. 75

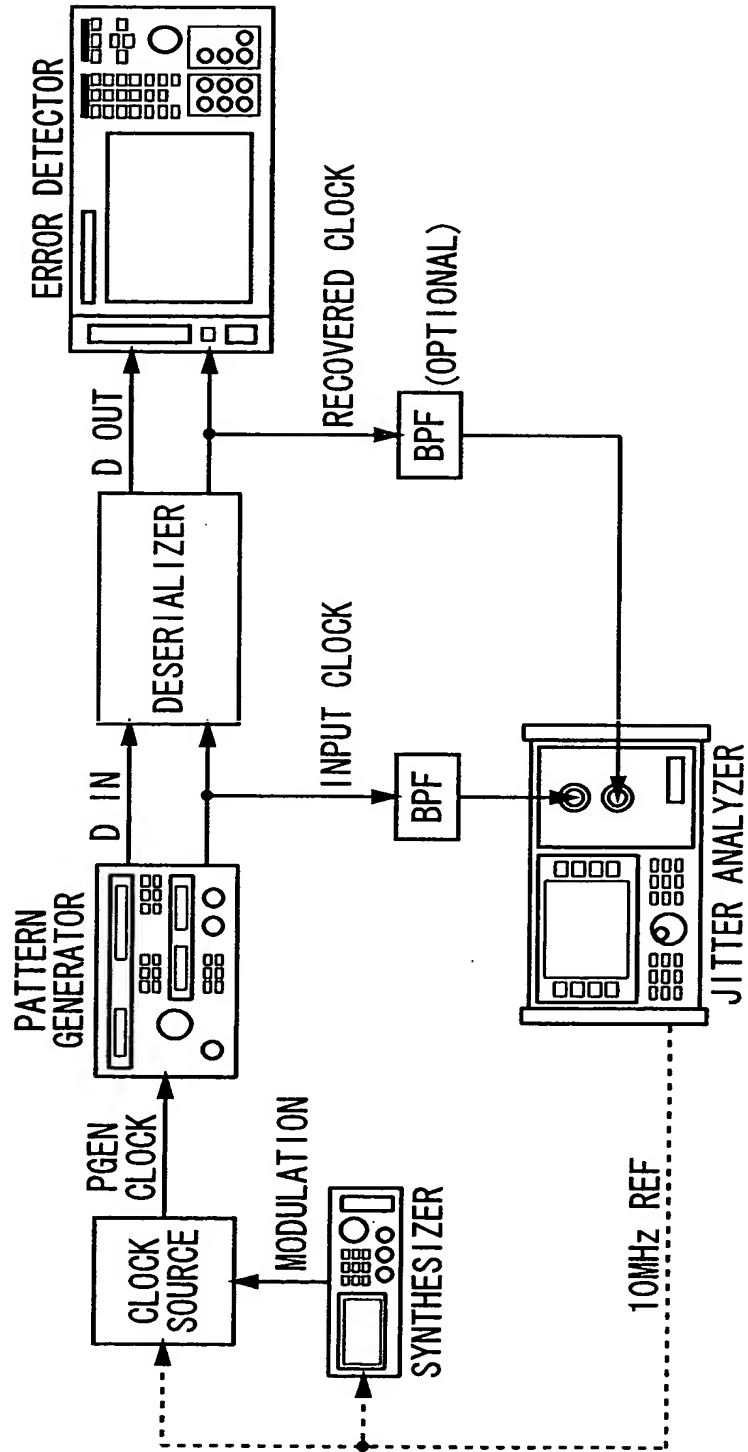


FIG. 76

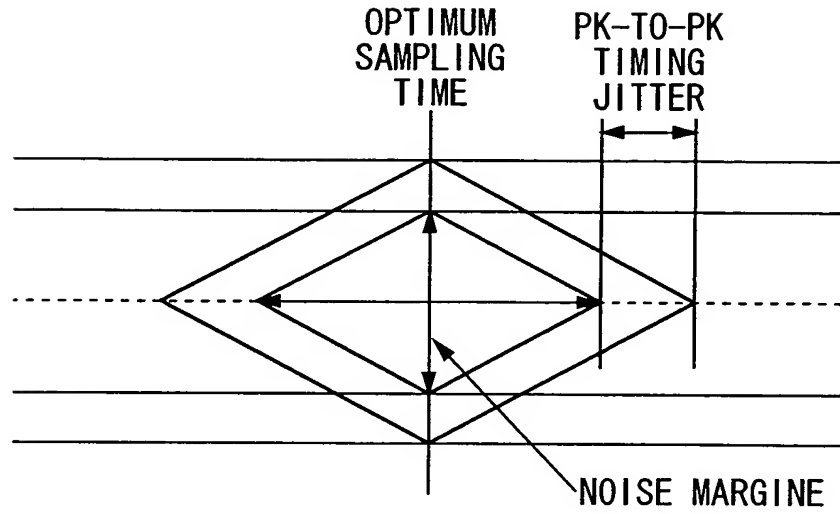


FIG. 77

